

TEST PIT LOG

CLIENT: Elton Consultants
PROJECT: Parramatta Planning Proposal
LOCATION: 266 Victoria Road, Parramatta

SURFACE LEVEL: 24.6 AHD
EASTING: 317156
NORTHING: 6257564

PIT No: TP34
PROJECT No: 85556.00
DATE: 12/8/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
24	0.03	FILLING - dark brown silty sandy clay filling with some roots, grass at surface	[Cross-hatched pattern]	D			PID<5							
		FILLING - brown sandy clay filling with some fine to medium igneous gravel												
		0.1												
		0.2												
		0.3	SILTY CLAY - orange silty clay with some silt and shale fragments (6-8cm)	[Diagonal hatching pattern]	D			PID<5						
		0.4												
		0.5												
		0.9	SHALY CLAY - light grey-red shaly clay	[Diagonal hatching pattern]	D			PID<5						
		1.0												
		1.2	SHALE - light grey shale	[Horizontal hatching pattern]										
	1.25	Pit discontinued at 1.25m - target depth reached												
23														

RIG: John Deere 350SE backhoe - 500mm wide bucket

LOGGED: CB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
BB	Bulk sample	P	Piston sample
BLK	Block sample	U _t	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Elton Consultants
PROJECT: Parramatta Planning Proposal
LOCATION: 266 Victoria Road, Parramatta

SURFACE LEVEL: 25.6 AHD
EASTING: 317167
NORTHING: 6257584

PIT No: TP35
PROJECT No: 85556.00
DATE: 12/8/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
25	0.03	FILLING - dark brown silty sandy filling with some roots, grass at surface	[Cross-hatched pattern]	D	0.1		PID<5							
		FILLING - brown sandy clay filling with fine to coarse igneous gravel and concrete fragments												
	0.2	SILTY CLAY - orange silty clay with some shale fragments (6-8cm)	[Diagonal lines pattern]	D	0.2									
					0.4									
					0.5									
	0.8	SHALY CLAY - light grey shaly clay	[Diagonal lines pattern]	D	0.9									
					1.0									
	1.0	SHALE - light grey shale	[Horizontal lines pattern]											
	1.1	Pit discontinued at 1.1m - target depth reached												
	24													

RIG: John Deere 350SE backhoe - 500mm wide bucket

LOGGED: CB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
BB	Bulk sample	P	Piston sample
BLK	Block sample	U _s	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	≧	Water seep
EE	Environmental sample	≧	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

Appendix E

Summary of Laboratory Results

Table E1: Summary of Laboratory Results for Soils for Site Suitability (mg/kg unless otherwise stated)

COL	Metals										TPH								BTEX						PAH/Phenols																			
	Arsenic	Cadmium	Chromium (Re-VI)	Copper	Lead	Mercury	Nickel	Zinc	<C10-C16	>C16-C24	>C24-C40	>F2-NAPHTHALENE	>C6-C9	>C10-C14	>C15-C28	>C29-C36	>C37-C40 (res BTEX (F1))	>C6-C10	Benzene	Ethylbenzene	Toluene	Xylene (m, p)	Xylene (o)	naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(e)pyrene	Benzo(g)herylene	Chrysene	DiBenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c)pyrene	Naphthalene	Phenanthrene	Total Positive PAHs	>Phenolics Total	Pyrene			
NEPM 2013 Table 1A(1) HILs Res B Soil	500 ¹	150	3000	1200 ²	120 ²	1200	6000				280 ³						50 ⁵	0.7	NI ⁶	480				15																400		0.1		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay 0-1m																																												
NEPM 2013 EILs Res/Open Space Aged	100	410	170	1100			85	4400																																				
NEPM 2013 Table 1B(6) EILs for Urban Res, Fine Soil 0-2m									1300	5600	120 ⁷						180 ⁸	65	125	105																								
NEPM 2013 Table 1B(7) Management Limits, Residential, parkland and public open space, Fine Soil									1000																																			

Field_ID	Sample_Depth_Range	Sampled_Date/Time	Matrix_Description	Data Columns																																											
BH11	0.4-0.5	8/09/2016	fill	6	<0.4	17	26	43	<0.1	11	52	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	0.3	0.8	1	0.71	0.9	0.3	0.8	<0.1	1.8	<0.1	0.3	<1-0.3	0.8	8.8	<5	1.6		
BH11	2.1-1	8/09/2016	fill	<4	<0.4	8	5	13	<0.1	2	18	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	0.1	0.2	0.3	0.2	0.5	<0.1	0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	1	<0.1	<0.1

Field_ID	Sample_Depth_Range	Sampled_Date/Time	Matrix_Description	Data Columns																																											
TP01	0.4-0.5	8/11/2016	fill	8	<0.4	14	9	16	<0.1	3	15	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	0.1	0.2	0.3	0.2	0.5	<0.1	0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	2.6	<5	0.6
TP01	0.9-1	8/11/2016	natural	7	<0.4	23	5	16	<0.1	2	5	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.5	<0.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	<0.1	<0.1

Env Stds Comments

- #1:Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Schedule B7).
- #2:Lead: HILs A,B,C based on blood lead levels (EUBK & HIL on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.
- #3:Elemental mercury: HIL does not address elemental mercury, a site specific assessment should be considered if elemental mercury is present, or suspected to be present.
- #4:To obtain F2 subtract naphthalene from the <C10 - C16 fraction.
- #5:To obtain F1 subtract the sum of BTEX concentrations from the <C6 - C10 fraction.
- #6:Derived soil HSL exceeds soil saturation concentration
- #7:Moderate reliability. To obtain F2 subtract naphthalene from the >C10 - C16 fraction.
- #8:Moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the <C6 - C10 fraction.
- #9:Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

Table E1: Summary of Laboratory Results for Soils for Site Suitability (mg/kg unless otherwise)

EQL	Polychlorinated Biphenyls											Organochlorine Pesticides																Organophosphorous Pesticides										Pesticides	Asbestos									
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	1,4-DCDE	1,8-BHC	Aldrin	1,1-DDE	Chlordane (cis)	Chlordane (trans)	1,1-DHC	DDE	DDT	DDE+DDT+DDD	Dieldrin	1,1-Difluoroborn	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	1-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinphos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dibutyltin	Dimethyltin	Ethion	Fenitrothion			Malathion	Romnel	Parathion	Asbestos					
NEPM 2013 Table 1A(1) HLs Res B Soil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
NEPM 2013 Table 1A(3) Res A/B Soil for Vapour Intrusion, Clay 0-1m																																																
NEPM 2013 ELs Res/Open Space Aged																																																
NEPM 2013 Table 1B(6) ELs for Urban Res, Fine Soil 0-2m																																																
NEPM 2013 Table 1B(7) Management Limits, Residential, parkland and public open space, Fine																																																

Table E2: Summary of Laboratory Results for Soils for Waste Classification

Field ID	Sample_Depth_Range	Sampled_Date/Time	Inorganics			Metals												TPH									BTEX						PAH/Phenols																		
			Moisture %	Arsenic mg/kg	Cadmium mg/kg	Chromium (III+VI) mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	TCP Nickel mg/L	Zinc mg/kg	ClO-Cl6 mg/kg	C8-C16 mg/kg	C9-C40 mg/kg	F2-NAPHTHALENE mg/kg	C6-C9 mg/kg	C10-C14 mg/kg	C15-C28 mg/kg	C29-C36 mg/kg	C6-C10 less BTEX (P1) mg/kg	C6-C10 mg/kg	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Xylene (m & p) mg/kg	Xylene (o) mg/kg	Hexachlorobenzene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benz(a,b,h)fluoranthene mg/kg	Benz(a)anthracene mg/kg	Benz(o)pyrene mg/kg	TCP Benzo(a)pyrene mg/L	Benzo(a)pyrene TEQ calc(half) mg/kg	Benzo(a,h)perylene mg/kg	Chrysene mg/kg	Dibenz(a,h)anthracene mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-c,d)pyrene mg/kg	Naphthalene mg/kg	Phenanthrene mg/kg	Total Positive PAHs mg/kg	Phenols Total mg/kg					
																																															1	2	3	4	5
EQL			0.1	4	0.4	1	1	1	0.1	0.02	1	50	100	100	50	25	50	100	100	25	25	0.2	1	0.5	2	1	0.1	0.1	0.1	0.1	0.2	0.1	0.05	0.001	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	200	5
			EPA (2014) General Solid Waste (CT1)																																																
			EPA (2014) General Solid Waste (SCC1, TCLP1)																																																
BH11	0.4-0.5	9/08/2016	16	6	<0.4	17	26	43	<0.1	11	52	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	0.3	1	0.8	0.71		0.9	0.3	0.8	<0.1	1.8	<0.1	0.3	<1-0.3	0.8	8.8	<5						
BH11	2-2.1	9/08/2016	7.2	<4	<0.4	8	5	13	<0.1	2	5	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	0.1	0.09		<0.5	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	0.2	1	-						
BH12	0.1-0.2	9/08/2016	14	7	<0.4	20	26	65	0.2	11	59	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<5						
BH13	0.4-0.5	9/08/2016	13	4	<0.4	15	12	48	0.1	6	42	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.1	0.2	0.4	0.3	0.3		<0.5	<0.1	0.4	<0.1	0.7	<0.1	0.1	<0.1	<0.1	0.4	3.8	<5					
BH14	0.4-0.5	10/08/2016	20	10	<0.4	32	5	18	<0.1	2	3	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	<5				
BH14	4.9-5	10/08/2016	6	7	<0.4	15	8	13	<0.1	13	51	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	-					
BH15	0.1-0.2	10/08/2016	4.1	<4	<0.4	6	85	2	<0.1	44	34	<50	<100	100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.17	<5					
TP01	0.4-0.5	11/08/2016	7.7	8	<0.4	14	9	16	<0.1	3	15	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.1	0.3	0.2	0.2		<0.5	<0.1	0.2	<0.1	0.6	<0.1	<0.1	<0.1	0.3	2.6	<5							
TP01	0.9-1	11/08/2016	20	7	<0.4	23	5	16	<0.1	2	5	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-						
TP02	0.4-0.5	11/08/2016	13	4	<0.4	11	9	9	<0.1	<1	5	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<5						
TP03	0.1-0.2	11/08/2016	16	<4	<0.4	13	7	33	<0.1	4	37	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	0.07		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.38	<5						
TP03	0.4-0.5	11/08/2016	15	5	<0.4	25	<1	8	<0.1	2	3	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	-						
TP04	0.1-0.2	11/08/2016	11	7	<0.4	19	7	33	<0.1	5	28	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	0.09		<0.5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.82	<5						
TP05	0.1-0.2	11/08/2016	19	<4	<0.4	12	7	33	<0.1	5	37	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<5						
TP05	0.4-0.5	11/08/2016	9.6	<4	<0.4	5	<1	10	<0.1	<1	2	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	-						
TP06	0.4-0.5	11/08/2016	14	<4	<0.4	14	7	26	0.1	4	36	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	0.1	0.1		<0.5	<0.1	0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	0.2	1.1	<5						
TP07	0.03-0.1	11/08/2016	9	8	<0.4	16	6	23	<0.1	3	20	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	1.2	<5					
TP07	0.1-0.2	11/08/2016	12	5	<0.4	18	7	35	0.1	4	38	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.1	0.3	0.4	0.3	0.3		<0.5	<0.1	0.3	<0.1	0.8	0.1	<0.1	0.7	4.5	-							
TP08	0.1-0.2	11/08/2016	14	6	<0.4	21	6	46	0.1	3	42	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.2	0.3	0.7	0.5	0.4		0.6	0.2	0.5	<0.1	1	<0.1	0.2	<0.1	0.6	5.8	<5						
TP09	0.1-0.2	11/08/2016	14	5	<0.4	16	9	98	0.1	4	51	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.3	0.4	0.9	0.7	0.57		0.7	0.2	0.6	<0.1	1.4	<0.1	0.2	<0.1	1.1	7.9	<5						
TP09	0.4-0.5	11/08/2016	15	<4	<0.4	4	2	22	<0.1	<1	<1	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.05		<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	-						
TP10	0.1-0.2	11/08/2016	15	6	<0.4	21	11	95	<0.1	4	70	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<0.1	<0.1	0.7	1.2	2.1	1.6	1.4		<0.001	2	0.5	1.5	2.2	4.1	0.2	0.4	<0.1	3.5	21	<5					
TP11	0.4-0.5	11/08/2016	13	5	<0.4	19	6	32	0.1	2	35	<50	<100	<100	<50	<25	<50	<100	<100	<25	<25	<0.2	<1	<0.5	<2	<1	<																								

Table E3: Summary of Groundwater Results

Sample Location	Sample Type	Sample Date	Hardness		Metals								TRH					BTEXN					PAH		OCP			OPP		PCB		Nutrients								
			Hardness	Hardness Category	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	C6 - C10	C6 - C10 minus BTEX (F1)	>C10 - C16	>C10 - C16 minus Naphthalene (F2)	>C16 - C34	>C34 - C40	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Naphthalene	Total PAH	Total OCP	pp-DDE	DDT	Total OPP	Total PCB	Phenols	Phosphorous	Phosphate in water	Total N in water	Nox as N	Ammonia			
			mgCaCO3/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L				
HH GIL	HSL A/B (Clay 4-8m)																																							
	ADWG (2016) (health-based)				10	2	50	2000	10	1	20						5	800	300			600			0.01												1150	500		
Eco GIL	ANZECC (2000) Fresh Water (95%)		24/13		0.2	1	1.4	3.4	0.06	11	8					950				350	200		16													161	900			
	Adopted Eco GIL				13	1.1	1	7.3	40.1	0.06	57	42				950				350	200		16				0.006			0.01					161	900				
BH14	Primary	26/08/16	230	VH	<1	<0.1	<1	4	<1	<0.05	42	120	<10	<10	<50	<50	<100	<100	<1	<1	<1	<2	<1	<3	<1	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<50	200	400	10	29
BD17260816	Duplicate	26/08/16			<1	<0.1	<1	5	<1	<0.05	43	120	<10	<10	<50	<50	<100	<100	<1	<1	<1	<2	<1	<3	<1	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<50	210	300	8	33

Notes

µg/L = micrograms per litre
 All results and criteria = µg/L unless otherwise stated
 PQL = Practical Quantitation Limit
 Eco GIL = Ecological Groundwater Investigation Level
 ANZECC 2000 Fresh Water 95% Protection
 HH GIL = Human Health Groundwater Investigation Level
 NEPC (2013) HSLs for Vapour Intrusion
 ADWG = Australian Drinking Water Guidelines (2013)
 NL = Not Limiting – A vapour source concentration for a petroleum mixture could not exceed a level that would result in the maximum allowable vapour risk for the given scenario.
 < denotes result less than PQL
 Red = Exceedence of HH GIL
 Blue = Exceedence of Eco GIL
 VH = Very Hard

A	B	C	D	E	F	G	H	I	J	K	L	
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.117/10/2016 1:18:09 PM									
5	From File		BaP_fill.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10	BaP_ND											
11												
12	General Statistics											
13	Total Number of Observations			35	Number of Distinct Observations			12				
14	Number of Detects			19	Number of Non-Detects			16				
15	Number of Distinct Detects			12	Number of Distinct Non-Detects			1				
16	Minimum Detect			0.05	Minimum Non-Detect			0.05				
17	Maximum Detect			1.4	Maximum Non-Detect			0.05				
18	Variance Detects			0.11	Percent Non-Detects			45.71%				
19	Mean Detects			0.263	SD Detects			0.331				
20	Median Detects			0.1	CV Detects			1.258				
21	Skewness Detects			2.606	Kurtosis Detects			7.605				
22	Mean of Logged Detects			-1.826	SD of Logged Detects			0.939				
23												
24	Normal GOF Test on Detects Only											
25	Shapiro Wilk Test Statistic			0.651	Shapiro Wilk GOF Test							
26	5% Shapiro Wilk Critical Value			0.901	Detected Data Not Normal at 5% Significance Level							
27	Lilliefors Test Statistic			0.268	Lilliefors GOF Test							
28	5% Lilliefors Critical Value			0.197	Detected Data Not Normal at 5% Significance Level							
29	Detected Data Not Normal at 5% Significance Level											
30												
31	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
32	KM Mean		0.166	KM Standard Error of Mean		0.0452						
33	KM SD		0.26	95% KM (BCA) UCL		0.25						
34	95% KM (t) UCL		0.242	95% KM (Percentile Bootstrap) UCL		0.248						
35	95% KM (z) UCL		0.24	95% KM Bootstrap t UCL		0.32						
36	90% KM Chebyshev UCL		0.301	95% KM Chebyshev UCL		0.363						
37	97.5% KM Chebyshev UCL		0.448	99% KM Chebyshev UCL		0.615						
38												
39	Gamma GOF Tests on Detected Observations Only											
40	A-D Test Statistic		1.269	Anderson-Darling GOF Test								
41	5% A-D Critical Value		0.765	Detected Data Not Gamma Distributed at 5% Significance Level								
42	K-S Test Statistic		0.293	Kolmogorov-Smirnov GOF								
43	5% K-S Critical Value		0.204	Detected Data Not Gamma Distributed at 5% Significance Level								
44	Detected Data Not Gamma Distributed at 5% Significance Level											
45												
46	Gamma Statistics on Detected Data Only											
47	k hat (MLE)		1.157	k star (bias corrected MLE)		1.01						
48	Theta hat (MLE)		0.227	Theta star (bias corrected MLE)		0.261						
49	nu hat (MLE)		43.98	nu star (bias corrected)		38.37						
50	Mean (detects)		0.263									
51												
52	Gamma ROS Statistics using Imputed Non-Detects											
53	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
54	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
55	For such situations, GROS method may yield incorrect values of UCLs and BTVs											

A	B	C	D	E	F	G	H	I	J	K	L
56	This is especially true when the sample size is small.										
57	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates										
58	Minimum	0.01							Mean	0.147	
59	Maximum	1.4							Median	0.06	
60	SD	0.273							CV	1.85	
61	k hat (MLE)	0.532							k star (bias corrected MLE)	0.506	
62	Theta hat (MLE)	0.277							Theta star (bias corrected MLE)	0.292	
63	nu hat (MLE)	37.26							nu star (bias corrected)	35.4	
64	Adjusted Level of Significance (β)	0.0425									
65	Approximate Chi Square Value (35.40, α)	22.79							Adjusted Chi Square Value (35.40, β)	22.31	
66	95% Gamma Approximate UCL (use when $n \geq 50$)	0.229							95% Gamma Adjusted UCL (use when $n < 50$)	0.234	
67											
68	Estimates of Gamma Parameters using KM Estimates										
69	Mean (KM)	0.166							SD (KM)	0.26	
70	Variance (KM)	0.0677							SE of Mean (KM)	0.0452	
71	k hat (KM)	0.406							k star (KM)	0.39	
72	nu hat (KM)	28.41							nu star (KM)	27.31	
73	theta hat (KM)	0.408							theta star (KM)	0.425	
74	80% gamma percentile (KM)	0.267							90% gamma percentile (KM)	0.47	
75	95% gamma percentile (KM)	0.695							99% gamma percentile (KM)	1.26	
76											
77	Gamma Kaplan-Meier (KM) Statistics										
78	Approximate Chi Square Value (27.31, α)	16.39							Adjusted Chi Square Value (27.31, β)	15.99	
79	95% Gamma Approximate KM-UCL (use when $n \geq 50$)	0.276							95% Gamma Adjusted KM-UCL (use when $n < 50$)	0.283	
80											
81	Lognormal GOF Test on Detected Observations Only										
82	Shapiro Wilk Test Statistic	0.898							Shapiro Wilk GOF Test		
83	5% Shapiro Wilk Critical Value	0.901							Detected Data Not Lognormal at 5% Significance Level		
84	Lilliefors Test Statistic	0.273							Lilliefors GOF Test		
85	5% Lilliefors Critical Value	0.197							Detected Data Not Lognormal at 5% Significance Level		
86	Detected Data Not Lognormal at 5% Significance Level										
87											
88	Lognormal ROS Statistics Using Imputed Non-Detects										
89	Mean in Original Scale	0.15							Mean in Log Scale	-2.993	
90	SD in Original Scale	0.271							SD in Log Scale	1.565	
91	95% t UCL (assumes normality of ROS data)	0.228							95% Percentile Bootstrap UCL	0.23	
92	95% BCA Bootstrap UCL	0.267							95% Bootstrap t UCL	0.301	
93	95% H-UCL (Log ROS)	0.406									
94											
95	Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution										
96	KM Mean (logged)	-2.36							KM Geo Mean	0.0944	
97	KM SD (logged)	0.891							95% Critical H Value (KM-Log)	2.329	
98	KM Standard Error of Mean (logged)	0.155							95% H-UCL (KM -Log)	0.2	
99	KM SD (logged)	0.891							95% Critical H Value (KM-Log)	2.329	
100	KM Standard Error of Mean (logged)	0.155									
101											
102	DL/2 Statistics										
103	DL/2 Normal					DL/2 Log-Transformed					
104	Mean in Original Scale	0.154							Mean in Log Scale	-2.677	
105	SD in Original Scale	0.269							SD in Log Scale	1.163	
106	95% t UCL (Assumes normality)	0.231							95% H-Stat UCL	0.23	
107	DL/2 is not a recommended method, provided for comparisons and historical reasons										
108											
109	Nonparametric Distribution Free UCL Statistics										
110	Data do not follow a Discernible Distribution at 5% Significance Level										
111											

	A	B	C	D	E	F	G	H	I	J	K	L
111												
112	Suggested UCL to Use											
113	95% KM (Chebyshev) UCL				0.363							
114												
115	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
116	Recommendations are based upon data size, data distribution, and skewness.											
117	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
118	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
119												

Appendix F

Laboratory Certificates of Analysis

CHAIN OF CUSTODY



Client: Douglas Partners	Project Number: 85556	To: EnviroLab Services
Contact Person: Chris Bagia	Project Name: North Ryde	Contact Person: Aileen Hie
Project Mgr: John Russell	PO No.:	Address: 12 Ashley Street Chatswood NSW 2068
Address: 96 Hermitage Road West Ryde NSW 2114	lab Quote No.:	Phone: 02 9910 6200
Phone: 9809 0666 Mob: 0422 000 434	Date results required: Standard	Fax: 02 9910 6201
Email: John.Russell@douglaspartners.com.au Chris.Bagia@douglaspartners.com.au	Or choose:	Email: ahie@envirolab.com.au
	Note: Inform lab in advance if urgent turnaround is required - surcharges apply	Laboratory Report No.:
	Report format: esdat / PDF / Excel	Lab Comments:

Lab Sample ID	Field Sample ID	Depth	Date sampled	Container Type	Type of sample	Tests Required					Comments
						Combo 3	Combo Ba	CEC	pH	Asbestos	
1	TP01	0.4-0.5	11/08/2016	GP	SOIL		X				
2	TP01	0.9-1.0	11/08/2016	GP	SOIL	X					
3	TP02	0.4-0.5	11/08/2016	GP	SOIL		X				
4	TP03	0.1-0.2	11/08/2016	GP	SOIL		X				
5	TP03	0.4-0.5	11/08/2016	GP	SOIL	X			X		
6	TP04	0.1-0.2	11/08/2016	GP	SOIL		X				
7	TP05	0.1-0.2	11/08/2016	GP	SOIL	X					
8	TP05	0.4-0.5	11/08/2016	GP	SOIL		X				
9	TP06	0.4-0.5	11/08/2016	GP	SOIL	X					
10	TP07	0.03-0.1	11/08/2016	GP	SOIL		X				
11	TP07	0.1-0.2	11/08/2016	GP	SOIL	X					
12	TP08	0.1-0.2	11/08/2016	GP	SOIL		X				
13	TP09	0.1-0.2	11/08/2016	GP	SOIL	X					
14	TP09	0.4-0.5	11/08/2016	GP	SOIL		X				
15	TP10	0.1-0.2	11/08/2016	GP	SOIL	X					
16	TP11	0.4-0.5	11/08/2016	GP	SOIL		X				
17	TP11	0.9-1.0	11/08/2016	GP	SOIL	X			X		
18	TP12	0.1-0.2	11/08/2016	GP	SOIL		X				
19	TP13	0.1-0.2	11/08/2016	GP	SOIL		X				
20	TP13	0.4-0.5	11/08/2016	GP	SOIL	X					
21	TP14	0.1-0.2	11/08/2016	GP	SOIL		X				
22	TP15	0.2-0.3	11/08/2016	GP	SOIL		X				
23	TP15	0.4-0.5	11/08/2016	GP	SOIL	X					
24	TP16	0.1-0.2	11/08/2016	GP	SOIL		X				
25	TP17	0.3-0.5	11/08/2016	GP	SOIL	X					
26	TP18	0.1-0.2	11/08/2016	GP	SOIL		X				

Relinquished by: Douglas Partners

Courier (by whom) _____

Condition of Sample at dispatch Cool or Ambient (circle one) _____

Temperature (if Applicable): _____

Print Name: Matthew Hyde

Date & Time: 15/08/2016 - 15:00h

Signature: _____

Sample Receipt

Received by (Company): _____

Print Name: _____

Date & Time: _____

Signature: _____

Lab use only:

Samples Received: Cool or Ambient (circle one) _____

Temperature Received at: _____ (if applicable)

Transported by: Hand delivered / courier

CHAIN OF CUSTODY



To: EnviroLab Services
Contact Person: Aileen Hie
Address: 12 Ashley Street
 Chabwood NSW 2068
Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ailie@envirolab.com.au
Laboratory Report No.:
Lab Comments:

Project Number: 85556
Project Name: North Ryde
PO No.:
Lab Quote No.:
Date results required: Standard
Or choose:
Note: Inform lab in advance if urgent turnaround is required - surcharges apply
Report format: esdat / PDF / Excel
Comments:

Client: Douglas Partners
Contact Person: Chris Bagla
Project Mgr: John Russell
Address: 96 Hermitage Road
 West Ryde NSW 2114
Phone: 9809 0666 **Mob:** 0422 000 434
Email: john.russell@douglaspartners.com.au
 Chris.Bagla@douglaspartners.com.au

Lab Sample ID	Sample Information				Tests Required					Comments Provide as much information about the sample as you can	
	Field Sample ID	Depth	Date sampled	Container Type	Type of sample	Combo 3	Combo 8a	CEC	pH		Asbestos
17	TP19	0.3-0.4	11/08/2016	GP	SOIL	X					
18	TP20	0.1-0.2	11/08/2016	GP	SOIL		X				
19	TP21	0.1-0.2	11/08/2016	GP	SOIL		X				
20	TP21	0.4-0.5	11/08/2016	GP	SOIL	X					
21	TP22	0.1-0.2	11/08/2016	GP	SOIL		X				
22	TP23	0.5-0.5	11/08/2016	GP	SOIL	X					
23	TP24	0.1-0.2	11/08/2016	GP	SOIL		X				
24	TP25	0.05-0.1	11/08/2016	GP	SOIL	X					
25	TP26	0.1-0.2	12/08/2016	GP	SOIL		X				
26	TP27	0.1-0.2	12/08/2016	GP	SOIL		X				
27	TP27	0.4-0.5	12/08/2016	GP	SOIL	X					
28	TP28	0.1-0.2	12/08/2016	GP	SOIL		X				
29	TP29	0.1-0.2	12/08/2016	GP	SOIL		X				
30	TP29	0.4-0.5	12/08/2016	GP	SOIL	X					
31	TP30	0.1-0.2	12/08/2016	GP	SOIL		X				
32	TP31	0.1-0.2	12/08/2016	GP	SOIL		X				
33	TP31	0.4-0.5	12/08/2016	GP	SOIL	X					
34	TP32	0.1-0.2	12/08/2016	GP	SOIL		X				
35	TP33	0.1-0.2	12/08/2016	GP	SOIL		X				
36	TP33	0.4-0.5	12/08/2016	GP	SOIL	X					
37	TP34	0.1-0.2	12/08/2016	GP	SOIL		X		X		
38	TP35	0.1-0.2	12/08/2016	GP	SOIL		X				
39	TP35	0.9-1.0	12/08/2016	GP	SOIL	X					

Relinquished by: Douglas Partners
Courier (by whom):
Condition of Sample at dispatch: Cool or Ambient (circle one)
Temperature (if Applicable):
Print Name: Matthew Hyde
Date & Time: 15/08/2016 15:00
Signature:

Sample Receipt
Received by (Company): as
Print Name:
Date & Time: 15/08/16 17:00
Signature:

Lab use only:
Samples Received: Cool or Ambient (circle one)
Temperature Received at: (if applicable)
Transported by: Hand delivered / courier

CHAIN OF CUSTODY



Client: Douglas Partners	Project Number: 85556	To: EnviroLab Services
Contact Person: Chris Bagla	Project Name: North Ryde	Contact Person: Aileen Hie
Project Mgr: John Russell	PO No.:	Address: 12 Ashley Street Chatswood NSW 2068
Address: 96 Hermitage Road West Ryde NSW 2114	Lab Quote No.: Standard	Phone: 02 9910 6200
Phone: 9809 0666	Or choose:	Fax: 02 9910 6201
Mob: 0422 000 434	Note: Inform lab in advance if urgent turnaround is required - surcharges apply	Email: ahie@envirolab.com.au
Email: John.Russell@douglaspartners.com.au	Report format: esdat / PDF / Excel	Laboratory Report No.:
Chris.Bagla@douglaspartners.com.au	Comments:	Lab Comments:

Sample Information							Tests Required				Comments Provide as much information about the sample as you can				
Lab Sample ID	Field Sample ID	Depth	Date sampled	Container Type	Type of sample	Combo 3	Combo 8a	CEC	pH	Asbestos					
49	BH11	0.4-0.5	9/08/2016	GP	SOIL		X								
50	BH11	2.0-2.1	9/08/2016	GP	SOIL	X									
51	BH12	0.1-0.2	9/08/2016	GP	SOIL		X								
52	BH13	0.4-0.5	9/08/2016	GP	SOIL		X								
53	BH14	0.4-0.5	10/08/2016	GP	SOIL		X								
54	BH14	4.9-5.0	10/08/2016	GP	SOIL	X									
55	BH15	0.1-0.2	10/08/2016	GP	SOIL		X								
56	BD3/110816		11/08/2016	GP	SOIL		X								
57	BD1/110816		11/08/2016	GP	SOIL		X								
58	BD1/090816		9/08/2016	GP	SOIL		X			X					
59	BH12	0.1-0.2	9/08/2016	PID	BULK										
60															

Requisitioned by: Douglas Partners	Sample Receipt
Courier (by whom):	Received by (Company): <i>924</i>
Condition of Sample at dispatch Cool or Ambient (circle):	Temperature Received at: (if applicable)
Temperature (if Applicable):	Transported by: Hand delivered / courier
Print Name: Matthew Hyde	Date & Time: 15/08/16 17:00
Date & Time: 15/08/2016 - 15:00h	Signature:



CERTIFICATE OF ANALYSIS

151848

Client:

Douglas Partners Pty Ltd
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Chris Bagia

Sample log in details:

Your Reference:	85556, Parramatta
No. of samples:	58 Soils, 1 Material, 2 Waters
Date samples received / completed instructions received	15/08/16 / 15/08/16

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices. ***Please refer to the last page of this report for any comments relating to the results.***

Report Details:

Date results requested by: / Issue Date: 22/08/16 / 22/08/16
Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing **Tests not covered by NATA are denoted with *.**

Results Approved By:

David Springer
General Manager

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-2 TP01	151848-3 TP02	151848-4 TP03	151848-5 TP03
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	113	110	112	111	112

vTRH(C6-C10)/BTEXN in Soil Our Reference: Your Reference	UNITS ----- -	151848-6 TP04	151848-7 TP05	151848-8 TP05	151848-9 TP06	151848-10 TP07
Depth	-----	0.1-0.2	0.1-0.2	0.4-0.5	0.4-0.5	0.03-0.1
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	108	117	109	112

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-11 TP07	151848-12 TP08	151848-13 TP09	151848-14 TP09	151848-15 TP10
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	112	112	109	110	111

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-17 TP11	151848-18 TP12	151848-19 TP13	151848-20 TP13
Depth	-----	0.4-0.5	0.9-1.0	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	110	116	111	107	112

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-21 TP14	151848-22 TP15	151848-23 TP15	151848-24 TP16	151848-25 TP17
Depth	-----	0.1-0.2	0.2-0.3	0.4-0.5	0.1-0.2	0.3-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	99	92	95	95

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-29 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	96	96	96	97

vTRH(C6-C10)/BTEX in Soil Our Reference: Your Reference	UNITS ----- -	151848-31 TP23	151848-32 TP24	151848-33 TP25	151848-34 TP26	151848-35 TP27
Depth	-----	0.5-0.5	0.1-0.2	0.05-0.1	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	101	99	98	98

vTRH(C6-C10)/BTEX in Soil Our Reference: Your Reference	UNITS ----- -	151848-36 TP27	151848-37 TP28	151848-38 TP29	151848-39 TP29	151848-40 TP30
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	94	97	94	98

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-41 TP31	151848-42 TP31	151848-43 TP32	151848-44 TP33	151848-45 TP33
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	97	99	100	98

vTRH(C6-C10)/BTEXn in Soil Our Reference: Your Reference	UNITS ----- -	151848-46 TP34	151848-47 TP35	151848-48 TP35	151848-49 BH11	151848-50 BH11
Depth	-----	0.1-0.2	0.1-0.2	0.9-1.0	0.4-0.5	2.0-2.1
Date Sampled		12/08/2016	12/08/2016	12/08/2016	9/08/2016	9/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	19/08/2016	19/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	99	102	102	104

vTRH(C6-C10)/BTEX in Soil Our Reference: Your Reference	UNITS ----- -	151848-51 BH12	151848-52 BH13	151848-53 BH14	151848-54 BH14	151848-55 BH15
Depth	-----	0.1-0.2	0.4-0.5	0.4-0.5	4.9-5.0	0.1-0.2
Date Sampled		9/08/2016	9/08/2016	10/08/2016	10/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	19/08/2016	19/08/2016	19/08/2016	19/08/2016	19/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	99	101	105	99

vTRH(C6-C10)/BTEX in Soil Our Reference: Your Reference	UNITS ----- -	151848-56 BD3/110816	151848-57 BD1/110816	151848-61 TP19
Depth	-----	-	-	0.3-0.4
Date Sampled		11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	19/08/2016	19/08/2016	19/08/2016
TRHC ₆ - C ₉	mg/kg	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	94	97

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-2 TP01	151848-3 TP02	151848-4 TP03	151848-5 TP03
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	85	86	84	85

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-6 TP04	151848-7 TP05	151848-8 TP05	151848-9 TP06	151848-10 TP07
Depth	-----	0.1-0.2	0.1-0.2	0.4-0.5	0.4-0.5	0.03-0.1
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	85	86	84	84	84

Client Reference: 85556, Parramatta

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-11 TP07	151848-12 TP08	151848-13 TP09	151848-14 TP09	151848-15 TP10
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	85	83	84	84	83

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-17 TP11	151848-18 TP12	151848-19 TP13	151848-20 TP13
Depth	-----	0.4-0.5	0.9-1.0	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	83	83	83	85	84

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-21 TP14	151848-22 TP15	151848-23 TP15	151848-24 TP16	151848-25 TP17
Depth	-----	0.1-0.2	0.2-0.3	0.4-0.5	0.1-0.2	0.3-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	92	90	88	82	82

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-29 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	86	86	85	87

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-31 TP23	151848-32 TP24	151848-33 TP25	151848-34 TP26	151848-35 TP27
Depth	-----	0.5-0.5	0.1-0.2	0.05-0.1	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	87	85	89	86	86

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-36 TP27	151848-37 TP28	151848-38 TP29	151848-39 TP29	151848-40 TP30
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	84	86	87	88

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-41 TP31	151848-42 TP31	151848-43 TP32	151848-44 TP33	151848-45 TP33
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	87	87	86	85	85

svTRH(C10-C40) in Soil Our Reference: Your Reference	UNITS ----- -	151848-46 TP34	151848-47 TP35	151848-48 TP35	151848-49 BH11	151848-50 BH11
Depth	-----	0.1-0.2	0.1-0.2	0.9-1.0	0.4-0.5	2.0-2.1
Date Sampled		12/08/2016	12/08/2016	12/08/2016	9/08/2016	9/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	220	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	240	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	150	<100	<100	<100	<100
Surrogate o-Terphenyl	%	90	86	85	86	85

Client Reference: 85556, Parramatta

svTRH(C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	151848-51 BH12 0.1-0.2 9/08/2016 Soil	151848-52 BH13 0.4-0.5 9/08/2016 Soil	151848-53 BH14 0.4-0.5 10/08/2016 Soil	151848-54 BH14 4.9-5.0 10/08/2016 Soil	151848-55 BH15 0.1-0.2 10/08/2016 Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	100
Surrogate o-Terphenyl	%	84	83	84	85	104

svTRH(C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	151848-56 BD3/110816 - 11/08/2016 Soil	151848-57 BD1/110816 - 11/08/2016 Soil	151848-61 TP19 0.3-0.4 11/08/2016 Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100	<100	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	82	84	82

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-2 TP01	151848-3 TP02	151848-4 TP03	151848-5 TP03
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.6	0.1	<0.1	0.1	<0.1
Pyrene	mg/kg	0.6	<0.1	<0.1	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	<0.05	0.07	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	2.6	0.10	NIL (+)VE	0.38	NIL (+)VE
Surrogate p-Terphenyl-d14	%	115	105	97	100	99

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-6 TP04	151848-7 TP05	151848-8 TP05	151848-9 TP06	151848-10 TP07
Depth	-----	0.1-0.2	0.1-0.2	0.4-0.5	0.4-0.5	0.03-0.1
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	0.1	<0.1	0.3	0.1
Pyrene	mg/kg	0.2	0.1	<0.1	0.3	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.09	<0.05	<0.05	0.1	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	0.82	0.23	NIL (+)VE	1.1	0.12
Surrogate <i>p</i> -Terphenyl-d14	%	100	109	100	104	98

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-11 TP07	151848-12 TP08	151848-13 TP09	151848-14 TP09	151848-15 TP10
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	0.2	0.3	<0.1	0.7
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Phenanthrene	mg/kg	0.7	0.6	1.1	<0.1	3.5
Anthracene	mg/kg	0.3	0.3	0.4	<0.1	1.2
Fluoranthene	mg/kg	0.8	1.0	1.4	<0.1	4.1
Pyrene	mg/kg	0.9	1.1	1.5	<0.1	3.9
Benzo(a)anthracene	mg/kg	0.3	0.5	0.7	<0.1	1.6
Chrysene	mg/kg	0.3	0.5	0.6	<0.1	1.5
Benzo(b,j+k)fluoranthene	mg/kg	0.4	0.7	0.9	<0.2	2.1
Benzo(a)pyrene	mg/kg	0.3	0.4	0.57	<0.05	1.4
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	0.2	0.2	<0.1	0.4
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(g,h,i)perylene	mg/kg	0.1	0.2	0.2	<0.1	0.5
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	0.6	0.7	<0.5	2.0
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	0.6	0.7	<0.5	2.0
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.6	0.7	<0.5	2.0
Total Positive PAHs	mg/kg	4.5	5.8	7.9	NIL(+)/VE	21
Surrogate p-Terphenyl-d14	%	105	99	105	97	101

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-17 TP11	151848-18 TP12	151848-19 TP13	151848-20 TP13
Depth	-----	0.4-0.5	0.9-1.0	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	2.1	NIL(+)/VE	NIL(+)/VE	NIL(+)/VE	NIL(+)/VE
Surrogate p-Terphenyl-d14	%	95	96	100	101	97

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-21 TP14	151848-22 TP15	151848-23 TP15	151848-24 TP16	151848-25 TP17
Depth	-----	0.1-0.2	0.2-0.3	0.4-0.5	0.1-0.2	0.3-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	0.2	<0.1	0.3	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.3	<0.1	0.6	<0.1
Pyrene	mg/kg	0.1	0.4	<0.1	0.7	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	0.3	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	0.3	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.2	<0.2	0.5	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.1	<0.05	0.3	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	0.22	1.6	NIL (+)VE	3.6	NIL (+)VE
Surrogate p-Terphenyl-d14	%	103	101	108	99	90

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-29 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	0.2	0.1	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.08	0.05	<0.05	<0.05	0.07
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	0.63	0.28	NIL (+)VE	NIL (+)VE	0.69
Surrogate p-Terphenyl-d14	%	115	107	99	97	100

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-31 TP23	151848-32 TP24	151848-33 TP25	151848-34 TP26	151848-35 TP27
Depth	-----	0.5-0.5	0.1-0.2	0.05-0.1	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.3	<0.1	<0.1	0.3
Pyrene	mg/kg	<0.1	0.3	0.1	<0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.3	<0.2	<0.2	0.3
Benzo(a)pyrene	mg/kg	<0.05	0.1	<0.05	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	1.5	0.10	NIL (+)VE	1.6
Surrogate p-Terphenyl-d14	%	98	91	103	96	97

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-36 TP27	151848-37 TP28	151848-38 TP29	151848-39 TP29	151848-40 TP30
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.5	0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.4	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.3	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.05	0.1	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	0.28	2.3	0.24	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	96	95	97	89	94

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-41 TP31	151848-42 TP31	151848-43 TP32	151848-44 TP33	151848-45 TP33
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	0.22	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	97	99	109	98	100

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-46 TP34	151848-47 TP35	151848-48 TP35	151848-49 BH11	151848-50 BH11
Depth	-----	0.1-0.2	0.1-0.2	0.9-1.0	0.4-0.5	2.0-2.1
Date Sampled		12/08/2016	12/08/2016	12/08/2016	9/08/2016	9/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.8	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Fluoranthene	mg/kg	0.2	<0.1	<0.1	1.8	0.3
Pyrene	mg/kg	0.2	<0.1	<0.1	1.6	0.3
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.8	0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	0.8	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	1	<0.2
Benzo(a)pyrene	mg/kg	0.06	<0.05	<0.05	0.71	0.09
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	0.9	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	0.9	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	0.9	<0.5
Total Positive PAHs	mg/kg	0.53	NIL (+)VE	NIL (+)VE	8.8	1.0
Surrogate p-Terphenyl-d14	%	102	108	103	108	101

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-51 BH12	151848-52 BH13	151848-53 BH14	151848-54 BH14	151848-55 BH15
Depth	-----	0.1-0.2	0.4-0.5	0.4-0.5	4.9-5.0	0.1-0.2
Date Sampled		9/08/2016	9/08/2016	10/08/2016	10/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.4	<0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.7	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.8	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.4	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.3	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	0.22	3.8	NIL (+)VE	NIL (+)VE	0.17
Surrogate p-Terphenyl-d14	%	98	140	102	103	105

PAHs in Soil Our Reference: Your Reference	UNITS ----- -	151848-56 BD3/110816	151848-57 BD1/110816	151848-61 TP19
Depth	-----	-	-	0.3-0.4
Date Sampled		11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	0.2	<0.1
Anthracene	mg/kg	0.1	0.1	<0.1
Fluoranthene	mg/kg	0.3	0.5	<0.1
Pyrene	mg/kg	0.3	0.4	<0.1
Benzo(a)anthracene	mg/kg	0.1	0.2	<0.1
Chrysene	mg/kg	0.2	0.2	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.2	0.3	<0.2
Benzo(a)pyrene	mg/kg	0.1	0.2	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	1.7	2.2	NIL (+)VE
Surrogate p-Terphenyl-d14	%	103	105	102

Organochlorine Pesticides in soil	UNITS	151848-1	151848-3	151848-4	151848-6	151848-7
Our Reference:	-----	TP01	TP02	TP03	TP04	TP05
Your Reference	-					
Depth	-----	0.4-0.5	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	91	90	87	89	93

Organochlorine Pesticides in soil	UNITS	151848-9	151848-10	151848-12	151848-13	151848-15
Our Reference:	-----	TP06	TP07	TP08	TP09	TP10
Your Reference	-					
Depth	-----	0.4-0.5	0.03-0.1	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	87	88	89	88

Organochlorine Pesticides in soil	UNITS	151848-16	151848-18	151848-19	151848-21	151848-22
Our Reference:	-----	TP11	TP12	TP13	TP14	TP15
Your Reference:	-					
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2	0.2-0.3
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	91	90	88	88

Organochlorine Pesticides in soil						
Our Reference:	UNITS	151848-24	151848-26	151848-27	151848-28	151848-30
Your Reference	-----	TP16	TP18	TP20	TP21	TP22
Depth	-	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled	-----	11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	94	91	91	91

Organochlorine Pesticides in soil	UNITS	151848-32	151848-34	151848-35	151848-37	151848-38
Our Reference:	-----	TP24	TP26	TP27	TP28	TP29
Your Reference	-					
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	92	90	91	90

Organochlorine Pesticides in soil	UNITS	151848-40	151848-41	151848-43	151848-44	151848-46
Our Reference:	-----	TP30	TP31	TP32	TP33	TP34
Your Reference	-					
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	91	92	89	89	90

Organochlorine Pesticides in soil	UNITS	151848-47	151848-49	151848-51	151848-52	151848-53
Our Reference:	-----	TP35	BH11	BH12	BH13	BH14
Your Reference	-					
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.4-0.5	0.4-0.5
Date Sampled		12/08/2016	9/08/2016	9/08/2016	9/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	91	90	90	93

Organochlorine Pesticides in soil	UNITS	151848-55	151848-56	151848-57
Our Reference:	-----	BH15	BD3/110816	BD1/110816
Your Reference	-			
Depth	-----	0.1-0.2	-	-
Date Sampled		10/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016
HCB	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	91	92

Organophosphorus Pesticides	UNITS	151848-1	151848-3	151848-4	151848-6	151848-7
Our Reference:	-----	TP01	TP02	TP03	TP04	TP05
Your Reference	-					
Depth	-----	0.4-0.5	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	91	90	87	89	93

Organophosphorus Pesticides	UNITS	151848-9	151848-10	151848-12	151848-13	151848-15
Our Reference:	-----	TP06	TP07	TP08	TP09	TP10
Your Reference	-					
Depth	-----	0.4-0.5	0.03-0.1	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	87	88	89	88

Organophosphorus Pesticides	UNITS	151848-16	151848-18	151848-19	151848-21	151848-22
Our Reference:	-----	TP11	TP12	TP13	TP14	TP15
Your Reference	-					
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2	0.2-0.3
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	91	90	88	88

Organophosphorus Pesticides	UNITS	151848-24	151848-26	151848-27	151848-28	151848-30
Our Reference:	-----	TP16	TP18	TP20	TP21	TP22
Your Reference	-					
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	94	91	91	91

Organophosphorus Pesticides	UNITS	151848-32	151848-34	151848-35	151848-37	151848-38
Our Reference:	-----	TP24	TP26	TP27	TP28	TP29
Your Reference	-					
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	92	90	91	90

Organophosphorus Pesticides	UNITS	151848-40	151848-41	151848-43	151848-44	151848-46
Our Reference:	-----	TP30	TP31	TP32	TP33	TP34
Your Reference	-					
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	91	92	89	89	90

Organophosphorus Pesticides	UNITS	151848-47	151848-49	151848-51	151848-52	151848-53
Our Reference:	-----	TP35	BH11	BH12	BH13	BH14
Your Reference	-					
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.4-0.5	0.4-0.5
Date Sampled		12/08/2016	9/08/2016	9/08/2016	9/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	87	91	90	90	93

Organophosphorus Pesticides	UNITS	151848-55	151848-56	151848-57
Our Reference:	-----	BH15	BD3/110816	BD1/110816
Your Reference	-			
Depth	-----	0.1-0.2	-	-
Date Sampled		10/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	91	92

Client Reference: 85556, Parramatta

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-3 TP02	151848-4 TP03	151848-6 TP04	151848-7 TP05
Depth	-----	0.4-0.5	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	90	87	89	93

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-9 TP06	151848-10 TP07	151848-12 TP08	151848-13 TP09	151848-15 TP10
Depth	-----	0.4-0.5	0.03-0.1	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	87	87	88	89	88

Client Reference: 85556, Parramatta

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-18 TP12	151848-19 TP13	151848-21 TP14	151848-22 TP15
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2	0.2-0.3
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	89	91	90	88	88

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-24 TP16	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	92	94	91	91	91

Client Reference: 85556, Parramatta

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-32 TP24	151848-34 TP26	151848-35 TP27	151848-37 TP28	151848-38 TP29
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	92	92	90	91	90

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-40 TP30	151848-41 TP31	151848-43 TP32	151848-44 TP33	151848-46 TP34
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	92	89	89	90

Client Reference: 85556, Parramatta

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-47 TP35	151848-49 BH11	151848-51 BH12	151848-52 BH13	151848-53 BH14
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.4-0.5	0.4-0.5
Date Sampled		12/08/2016	9/08/2016	9/08/2016	9/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	87	91	90	90	93

PCBs in Soil Our Reference: Your Reference	UNITS ----- -	151848-55 BH15	151848-56 BD3/110816	151848-57 BD1/110816
Depth	-----	0.1-0.2	-	-
Date Sampled		10/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	92	91	92

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-2 TP01	151848-3 TP02	151848-4 TP03	151848-5 TP03
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	8	7	4	<4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	23	11	13	25
Copper	mg/kg	9	5	1	7	<1
Lead	mg/kg	16	16	9	33	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	2	<1	4	2
Zinc	mg/kg	15	5	5	37	3

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-6 TP04	151848-7 TP05	151848-8 TP05	151848-9 TP06	151848-10 TP07
Depth	-----	0.1-0.2	0.1-0.2	0.4-0.5	0.4-0.5	0.03-0.1
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	7	<4	<4	<4	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	12	5	14	16
Copper	mg/kg	7	7	<1	7	6
Lead	mg/kg	33	33	10	26	23
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	5	5	<1	4	3
Zinc	mg/kg	28	37	2	36	20

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-11 TP07	151848-12 TP08	151848-13 TP09	151848-14 TP09	151848-15 TP10
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	5	6	5	<4	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	21	16	4	21
Copper	mg/kg	7	6	9	2	11
Lead	mg/kg	35	46	98	22	95
Mercury	mg/kg	0.1	0.1	0.1	<0.1	<0.1
Nickel	mg/kg	4	3	4	<1	4
Zinc	mg/kg	38	42	51	<1	70

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-17 TP11	151848-18 TP12	151848-19 TP13	151848-20 TP13
Depth	-----	0.4-0.5	0.9-1.0	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	5	5	<4	<4	10
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	22	14	11	30
Copper	mg/kg	6	<1	10	9	1
Lead	mg/kg	32	11	19	11	17
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	2	13	11	2
Zinc	mg/kg	35	4	35	32	2

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-21 TP14	151848-22 TP15	151848-23 TP15	151848-24 TP16	151848-25 TP17
Depth	-----	0.1-0.2	0.2-0.3	0.4-0.5	0.1-0.2	0.3-0.5
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	8	11	9	6	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	22	9	48	21	15
Copper	mg/kg	4	7	<1	11	<1
Lead	mg/kg	15	39	13	46	9
Mercury	mg/kg	<0.1	0.8	<0.1	0.3	<0.1
Nickel	mg/kg	1	3	3	3	1
Zinc	mg/kg	4	37	3	47	5

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-29 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	<4	5	5	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	15	17	10	14
Copper	mg/kg	11	8	4	4	5
Lead	mg/kg	100	30	18	15	20
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	3	3	2	2	2
Zinc	mg/kg	32	23	19	24	22

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-31 TP23	151848-32 TP24	151848-33 TP25	151848-34 TP26	151848-35 TP27
Depth	-----	0.5-0.5	0.1-0.2	0.05-0.1	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	13	<4	<4	6	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	30	8	46	10	14
Copper	mg/kg	2	8	21	4	6
Lead	mg/kg	13	32	18	12	24
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	2	2	47	2	3
Zinc	mg/kg	2	27	33	16	29

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-36 TP27	151848-37 TP28	151848-38 TP29	151848-39 TP29	151848-40 TP30
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	8	9	6	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	20	16	21	20
Copper	mg/kg	7	7	10	1	4
Lead	mg/kg	39	36	72	14	18
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	2	7	2	2
Zinc	mg/kg	26	67	41	3	15

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-41 TP31	151848-42 TP31	151848-43 TP32	151848-44 TP33	151848-45 TP33
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	7	11	15	14	11
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	30	25	26	35
Copper	mg/kg	4	1	5	2	2
Lead	mg/kg	27	13	26	23	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	2	2	1	2
Zinc	mg/kg	17	2	22	11	2

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-46 TP34	151848-47 TP35	151848-48 TP35	151848-49 BH11	151848-50 BH11
Depth	-----	0.1-0.2	0.1-0.2	0.9-1.0	0.4-0.5	2.0-2.1
Date Sampled		12/08/2016	12/08/2016	12/08/2016	9/08/2016	9/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	5	4	<4	6	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	19	14	7	17	8
Copper	mg/kg	10	13	2	26	5
Lead	mg/kg	48	22	11	43	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	10	<1	11	2
Zinc	mg/kg	59	36	<1	52	18

Client Reference: 85556, Parramatta

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-51 BH12	151848-52 BH13	151848-53 BH14	151848-54 BH14	151848-55 BH15
Depth	-----	0.1-0.2	0.4-0.5	0.4-0.5	4.9-5.0	0.1-0.2
Date Sampled		9/08/2016	9/08/2016	10/08/2016	10/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	7	4	10	7	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	15	32	15	6
Copper	mg/kg	26	12	5	8	85
Lead	mg/kg	65	48	18	13	2
Mercury	mg/kg	0.2	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	6	2	13	44
Zinc	mg/kg	59	42	3	51	34

Acid Extractable metals in soil Our Reference: Your Reference	UNITS ----- -	151848-56 BD3/110816	151848-57 BD1/110816	151848-61 TP19	151848-62 TP14 - [TRIPLICATE]
Depth	-----	-	-	0.3-0.4	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Arsenic	mg/kg	<4	7	7	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	24	32	21
Copper	mg/kg	6	11	3	5
Lead	mg/kg	19	21	12	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	8	3	4
Zinc	mg/kg	22	14	9	12

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-3 TP02	151848-4 TP03	151848-6 TP04	151848-7 TP05
Depth	-----	0.4-0.5	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-9 TP06	151848-10 TP07	151848-12 TP08	151848-13 TP09	151848-15 TP10
Depth	-----	0.4-0.5	0.03-0.1	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-18 TP12	151848-19 TP13	151848-21 TP14	151848-22 TP15
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2	0.2-0.3
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-24 TP16	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Client Reference: 85556, Parramatta

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-32 TP24	151848-34 TP26	151848-35 TP27	151848-37 TP28	151848-38 TP29
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-40 TP30	151848-41 TP31	151848-43 TP32	151848-44 TP33	151848-46 TP34
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-47 TP35	151848-49 BH11	151848-51 BH12	151848-52 BH13	151848-53 BH14
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.4-0.5	0.4-0.5
Date Sampled		12/08/2016	9/08/2016	9/08/2016	9/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg Our Reference: Your Reference	UNITS ----- -	151848-55 BH15	151848-56 BD3/110816	151848-57 BD1/110816
Depth	-----	0.1-0.2	-	-
Date Sampled		10/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016	17/08/2016
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5

Client Reference: 85556, Parramatta

Moisture Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-2 TP01	151848-3 TP02	151848-4 TP03	151848-5 TP03
Depth Date Sampled Type of sample	----- -----	0.4-0.5 11/08/2016 Soil	0.9-1.0 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	7.7	20	13	16	15

Moisture Our Reference: Your Reference	UNITS ----- -	151848-6 TP04	151848-7 TP05	151848-8 TP05	151848-9 TP06	151848-10 TP07
Depth Date Sampled Type of sample	----- -----	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.03-0.1 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	11	19	9.6	14	9.0

Moisture Our Reference: Your Reference	UNITS ----- -	151848-11 TP07	151848-12 TP08	151848-13 TP09	151848-14 TP09	151848-15 TP10
Depth Date Sampled Type of sample	----- -----	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	12	14	14	15	15

Moisture Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-17 TP11	151848-18 TP12	151848-19 TP13	151848-20 TP13
Depth Date Sampled Type of sample	----- -----	0.4-0.5 11/08/2016 Soil	0.9-1.0 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	13	14	14	17	20

Client Reference: 85556, Parramatta

Moisture Our Reference: Your Reference	UNITS ----- -	151848-21 TP14	151848-22 TP15	151848-23 TP15	151848-24 TP16	151848-25 TP17
Depth Date Sampled Type of sample	-----	0.1-0.2 11/08/2016 Soil	0.2-0.3 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.3-0.5 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	16	14	26	13	12

Moisture Our Reference: Your Reference	UNITS ----- -	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-29 TP21	151848-30 TP22
Depth Date Sampled Type of sample	-----	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.4-0.5 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	13	13	13	11	12

Moisture Our Reference: Your Reference	UNITS ----- -	151848-31 TP23	151848-32 TP24	151848-33 TP25	151848-34 TP26	151848-35 TP27
Depth Date Sampled Type of sample	-----	0.5-0.5 11/08/2016 Soil	0.1-0.2 11/08/2016 Soil	0.05-0.1 11/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	18	9.3	5.4	10	13

Moisture Our Reference: Your Reference	UNITS ----- -	151848-36 TP27	151848-37 TP28	151848-38 TP29	151848-39 TP29	151848-40 TP30
Depth Date Sampled Type of sample	-----	0.4-0.5 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.4-0.5 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	15	20	12	17	14

Client Reference: 85556, Parramatta

Moisture Our Reference: Your Reference	UNITS ----- -	151848-41 TP31	151848-42 TP31	151848-43 TP32	151848-44 TP33	151848-45 TP33
Depth Date Sampled Type of sample	----- ----- -----	0.1-0.2 12/08/2016 Soil	0.4-0.5 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.4-0.5 12/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	14	21	14	16	11

Moisture Our Reference: Your Reference	UNITS ----- -	151848-46 TP34	151848-47 TP35	151848-48 TP35	151848-49 BH11	151848-50 BH11
Depth Date Sampled Type of sample	----- ----- -----	0.1-0.2 12/08/2016 Soil	0.1-0.2 12/08/2016 Soil	0.9-1.0 12/08/2016 Soil	0.4-0.5 9/08/2016 Soil	2.0-2.1 9/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	20	14	11	16	7.2

Moisture Our Reference: Your Reference	UNITS ----- -	151848-51 BH12	151848-52 BH13	151848-53 BH14	151848-54 BH14	151848-55 BH15
Depth Date Sampled Type of sample	----- ----- -----	0.1-0.2 9/08/2016 Soil	0.4-0.5 9/08/2016 Soil	0.4-0.5 10/08/2016 Soil	4.9-5.0 10/08/2016 Soil	0.1-0.2 10/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Moisture	%	14	13	20	6.0	4.1

Moisture Our Reference: Your Reference	UNITS ----- -	151848-56 BD3/110816	151848-57 BD1/110816	151848-61 TP19
Depth Date Sampled Type of sample	----- ----- -----	- 11/08/2016 Soil	- 11/08/2016 Soil	0.3-0.4 11/08/2016 Soil
Date prepared	-	17/08/2016	17/08/2016	17/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016
Moisture	%	11	18	17

Client Reference: 85556, Parramatta

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-1 TP01	151848-3 TP02	151848-4 TP03	151848-6 TP04	151848-7 TP05
Depth	-----	0.4-0.5	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 50g	Approx. 35g	Approx. 35g	Approx. 40g	Approx. 30g
Sample Description	-	Brown clayey soil	Brown clayey soil	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-9 TP06	151848-10 TP07	151848-12 TP08	151848-13 TP09	151848-15 TP10
Depth	-----	0.4-0.5	0.03-0.1	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 40g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-16 TP11	151848-18 TP12	151848-19 TP13	151848-21 TP14	151848-22 TP15
Depth	-----	0.4-0.5	0.1-0.2	0.1-0.2	0.1-0.2	0.2-0.3
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 50g	Approx. 30g	Approx. 30g	Approx. 35g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown clayey soil	Pink coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-24 TP16	151848-26 TP18	151848-27 TP20	151848-28 TP21	151848-30 TP22
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	11/08/2016	11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 40g	Approx. 40g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Client Reference: 85556, Parramatta

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-32 TP24	151848-34 TP26	151848-35 TP27	151848-37 TP28	151848-38 TP29
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		11/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 30g	Approx. 30g	Approx. 30g
Sample Description	-	Brown sandy soil	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-40 TP30	151848-41 TP31	151848-43 TP32	151848-44 TP33	151848-46 TP34
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		12/08/2016	12/08/2016	12/08/2016	12/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 40g	Approx. 35g	Approx. 40g	Approx. 40g	Approx. 25g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Client Reference: 85556, Parramatta

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-47 TP35	151848-49 BH11	151848-51 BH12	151848-52 BH13	151848-53 BH14
Depth	-----	0.1-0.2	0.4-0.5	0.1-0.2	0.4-0.5	0.4-0.5
Date Sampled		12/08/2016	9/08/2016	9/08/2016	9/08/2016	10/08/2016
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 35g	Approx. 40g	38.37g	Approx. 35g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown clayey soil	Brown clayey soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils Our Reference: Your Reference	UNITS ----- -	151848-55 BH15	151848-56 BD3/110816	151848-57 BD1/110816
Depth	-----	0.1-0.2	-	-
Date Sampled		10/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date analysed	-	18-19/08/2016	18-19/08/2016	18-19/08/2016
Sample mass tested	g	Approx. 50g	Approx. 35g	Approx. 30g
Sample Description	-	Beige coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials		
Our Reference:	UNITS	151848-58
Your Reference	-----	BH12
	-	
Depth	-----	0.1-0.2
Date Sampled		9/08/2016
Type of sample		Material
Date analysed	-	17/08/2016
Mass / Dimension of Sample	-	30x22x5mm
Sample Description	-	Grey compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected

Client Reference: 85556, Parramatta

Misc Inorg - Soil				
Our Reference:	UNITS	151848-5	151848-17	151848-45
Your Reference	-----	TP03	TP11	TP33
	-			
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil
Date prepared	-	18/08/2016	18/08/2016	18/08/2016
Date analysed	-	18/08/2016	18/08/2016	18/08/2016
pH 1:5 soil:water	pH Units	7.0	6.1	5.3

Client Reference: 85556, Parramatta

CEC				
Our Reference:	UNITS	151848-5	151848-17	151848-45
Your Reference	-----	TP03	TP11	TP33
	-			
Depth	-----	0.4-0.5	0.9-1.0	0.4-0.5
Date Sampled		11/08/2016	11/08/2016	12/08/2016
Type of sample		Soil	Soil	Soil
Date prepared	-	19/08/2016	19/08/2016	19/08/2016
Date analysed	-	19/08/2016	19/08/2016	19/08/2016
Exchangeable Ca	meq/100g	2.7	5.8	1.9
Exchangeable K	meq/100g	1.1	0.2	0.9
Exchangeable Mg	meq/100g	2.6	2.0	5.0
Exchangeable Na	meq/100g	<0.1	<0.1	<0.1
Cation Exchange Capacity	meq/100g	6.5	8.0	7.9

vTRH(C6-C10)/BTEXN in Water Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- - -----	151848-59 TS - 11/08/2016 Water	151848-60 TB - 11/08/2016 Water
Date extracted	-	17/08/2016	17/08/2016
Date analysed	-	17/08/2016	17/08/2016
TRHC ₆ - C ₉	µg/L	[NA]	<10
TRHC ₆ - C ₁₀	µg/L	[NA]	<10
TRHC ₆ - C ₁₀ less BTEX (F1)	µg/L	[NA]	<10
Benzene	µg/L	112%	<1
Toluene	µg/L	111%	<1
Ethylbenzene	µg/L	107%	<1
m+p-xylene	µg/L	107%	<2
o-xylene	µg/L	110%	<1
Naphthalene	µg/L	[NA]	<1
Surrogate Dibromofluoromethane	%	103	99
Surrogate toluene-d8	%	102	98
Surrogate 4-BFB	%	100	101

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Metals-009	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.
Org-013	Water samples are analysed directly by purge and trap GC-MS.

Client Reference: 85556, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			18/08/2016	151848-1	18/08/2016 18/08/2016	LCS-6	18/08/2016
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	151848-1	<25 <25	LCS-6	124%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	151848-1	<25 <25	LCS-6	124%
Benzene	mg/kg	0.2	Org-016	<0.2	151848-1	<0.2 <0.2	LCS-6	118%
Toluene	mg/kg	0.5	Org-016	<0.5	151848-1	<0.5 <0.5	LCS-6	120%
Ethylbenzene	mg/kg	1	Org-016	<1	151848-1	<1 <1	LCS-6	127%
m+p-xylene	mg/kg	2	Org-016	<2	151848-1	<2 <2	LCS-6	128%
o-Xylene	mg/kg	1	Org-016	<1	151848-1	<1 <1	LCS-6	128%
naphthalene	mg/kg	1	Org-014	<1	151848-1	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	103	151848-1	113 114 RPD: 1	LCS-6	120%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH(C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			18/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	151848-1	<50 <50	LCS-6	119%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	151848-1	<100 <100	LCS-6	124%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	151848-1	<100 <100	LCS-6	118%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	151848-1	<50 <50	LCS-6	119%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	151848-1	<100 <100	LCS-6	124%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	151848-1	<100 <100	LCS-6	118%
Surrogate o-Terphenyl	%		Org-003	92	151848-1	86 86 RPD: 0	LCS-6	123%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Naphthalene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	LCS-6	112%
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	LCS-6	130%
Phenanthrene	mg/kg	0.1	Org-012	<0.1	151848-1	0.3 <0.1	LCS-6	113%
Anthracene	mg/kg	0.1	Org-012	<0.1	151848-1	0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	151848-1	0.6 <0.1	LCS-6	99%
Pyrene	mg/kg	0.1	Org-012	<0.1	151848-1	0.6 <0.1	LCS-6	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	151848-1	0.2 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012	<0.1	151848-1	0.2 <0.1	LCS-6	104%
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	151848-1	0.3 <0.2	[NR]	[NR]

Client Reference: 85556, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	151848-1	0.2 <0.05	LCS-6	123%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	99	151848-1	115 101 RPD: 13	LCS-6	97%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
HCB	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	96%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	108%
Heptachlor	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	106%
delta-BHC	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	105%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	103%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	115%
Dieldrin	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	108%
Endrin	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	106%
pp-DDD	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	114%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	LCS-6	109%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	98	151848-1	91 90 RPD: 1	LCS-6	102%

Client Reference: 85556, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	98%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	105%
Dimethoate	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	104%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	126%
Malathion	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	70%
Parathion	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	119%
Ronnel	mg/kg	0.1	Org-008	<0.1	151848-1	<0.1 <0.1	LCS-6	105%
Surrogate TCMX	%		Org-008	98	151848-1	91 90 RPD: 1	LCS-6	97%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	LCS-6	125%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	151848-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	98	151848-1	91 90 RPD: 1	LCS-6	97%

Client Reference: 85556, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date prepared	-			17/08/2016	151848-1	17/08/2016 17/08/2016	LCS-6	17/08/2016
Date analysed	-			18/08/2016	151848-1	18/08/2016 18/08/2016	LCS-6	18/08/2016
Arsenic	mg/kg	4	Metals-020	<4	151848-1	8 5 RPD: 46	LCS-6	107%
Cadmium	mg/kg	0.4	Metals-020	<0.4	151848-1	<0.4 <0.4	LCS-6	108%
Chromium	mg/kg	1	Metals-020	<1	151848-1	14 9 RPD: 43	LCS-6	109%
Copper	mg/kg	1	Metals-020	<1	151848-1	9 6 RPD: 40	LCS-6	108%
Lead	mg/kg	1	Metals-020	<1	151848-1	16 14 RPD: 13	LCS-6	99%
Mercury	mg/kg	0.1	Metals-021	<0.1	151848-1	<0.1 <0.1	LCS-6	107%
Nickel	mg/kg	1	Metals-020	<1	151848-1	3 3 RPD: 0	LCS-6	101%
Zinc	mg/kg	1	Metals-020	<1	151848-1	15 16 RPD: 6	LCS-6	102%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results		
Misc Soil - Inorg						Base II Duplicate II %RPD		
Date prepared	-			17/08/2016	151848-1	17/08/2016 17/08/2016		
Date analysed	-			17/08/2016	151848-1	17/08/2016 17/08/2016		
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	151848-1	<5 <5		
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
Misc Inorg - Soil								
Date prepared	-			18/08/2016				
Date analysed	-			18/08/2016				
pH 1:5 soil:water	pH Units		Inorg-001	[NT]				
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
CEC								
Date prepared	-			19/08/2016				
Date analysed	-			19/08/2016				
Exchangeable Ca	meq/100 g	0.1	Metals-009	<0.1				
Exchangeable K	meq/100 g	0.1	Metals-009	<0.1				
Exchangeable Mg	meq/100 g	0.1	Metals-009	<0.1				
Exchangeable Na	meq/100 g	0.1	Metals-009	<0.1				

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Water	UNITS	PQL	METHOD	Blank	
Date extracted	-			17/08/2016	
Date analysed	-			17/08/2016	
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	
TRHC ₆ - C ₁₀	µg/L	10	Org-016	<10	
Benzene	µg/L	1	Org-016	<1	
Toluene	µg/L	1	Org-016	<1	
Ethylbenzene	µg/L	1	Org-016	<1	
m+p-xylene	µg/L	2	Org-016	<2	
o-xylene	µg/L	1	Org-016	<1	
Naphthalene	µg/L	1	Org-013	<1	
Surrogate Dibromofluoromethane	%		Org-016	104	
Surrogate toluene-d8	%		Org-016	97	
Surrogate 4-BFB	%		Org-016	102	
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-11	17/08/2016 17/08/2016	LCS-7	17/08/2016
Date analysed	-	151848-11	18/08/2016 18/08/2016	LCS-7	18/08/2016
TRHC ₆ - C ₉	mg/kg	151848-11	<25 <25	LCS-7	107%
TRHC ₆ - C ₁₀	mg/kg	151848-11	<25 <25	LCS-7	107%
Benzene	mg/kg	151848-11	<0.2 <0.2	LCS-7	105%
Toluene	mg/kg	151848-11	<0.5 <0.5	LCS-7	108%
Ethylbenzene	mg/kg	151848-11	<1 <1	LCS-7	108%
m+p-xylene	mg/kg	151848-11	<2 <2	LCS-7	107%
o-Xylene	mg/kg	151848-11	<1 <1	LCS-7	109%
naphthalene	mg/kg	151848-11	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	151848-11	112 114 RPD: 2	LCS-7	105%

Client Reference: 85556, Parramatta

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-11	17/08/2016 17/08/2016	LCS-7	17/08/2016
Date analysed	-	151848-11	17/08/2016 17/08/2016	LCS-7	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	151848-11	<50 <50	LCS-7	124%
TRHC ₁₅ - C ₂₈	mg/kg	151848-11	<100 <100	LCS-7	124%
TRHC ₂₉ - C ₃₆	mg/kg	151848-11	<100 <100	LCS-7	119%
TRH>C ₁₀ -C ₁₆	mg/kg	151848-11	<50 <50	LCS-7	124%
TRH>C ₁₆ -C ₃₄	mg/kg	151848-11	<100 <100	LCS-7	124%
TRH>C ₃₄ -C ₄₀	mg/kg	151848-11	<100 <100	LCS-7	119%
Surrogate o-Terphenyl	%	151848-11	85 84 RPD: 1	LCS-7	97%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-11	17/08/2016 17/08/2016	LCS-7	17/08/2016
Date analysed	-	151848-11	17/08/2016 17/08/2016	LCS-7	17/08/2016
Naphthalene	mg/kg	151848-11	<0.1 <0.1	LCS-7	120%
Acenaphthylene	mg/kg	151848-11	0.1 0.1 RPD: 0	[NR]	[NR]
Acenaphthene	mg/kg	151848-11	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	151848-11	<0.1 <0.1	LCS-7	125%
Phenanthrene	mg/kg	151848-11	0.7 0.5 RPD: 33	LCS-7	113%
Anthracene	mg/kg	151848-11	0.3 0.2 RPD: 40	[NR]	[NR]
Fluoranthene	mg/kg	151848-11	0.8 0.7 RPD: 13	LCS-7	99%
Pyrene	mg/kg	151848-11	0.9 0.7 RPD: 25	LCS-7	105%
Benzo(a)anthracene	mg/kg	151848-11	0.3 0.3 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	151848-11	0.3 0.3 RPD: 0	LCS-7	116%
Benzo(b,j+k)fluoranthene	mg/kg	151848-11	0.4 0.4 RPD: 0	[NR]	[NR]
Benzo(a)pyrene	mg/kg	151848-11	0.3 0.2 RPD: 40	LCS-7	130%
Indeno(1,2,3-c,d)pyrene	mg/kg	151848-11	0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	151848-11	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	151848-11	0.1 0.1 RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	151848-11	105 103 RPD: 2	LCS-7	97%

Client Reference: 85556, Parramatta

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS-7	17/08/2016
Date analysed	-	[NT]	[NT]	LCS-7	17/08/2016
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	LCS-7	98%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	LCS-7	112%
Heptachlor	mg/kg	[NT]	[NT]	LCS-7	109%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	LCS-7	108%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	LCS-7	110%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	LCS-7	111%
Dieldrin	mg/kg	[NT]	[NT]	LCS-7	112%
Endrin	mg/kg	[NT]	[NT]	LCS-7	107%
pp-DDD	mg/kg	[NT]	[NT]	LCS-7	120%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	LCS-7	111%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	LCS-7	104%

Client Reference: 85556, Parramatta

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS-7	17/08/2016
Date analysed	-	[NT]	[NT]	LCS-7	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyriphos	mg/kg	[NT]	[NT]	LCS-7	98%
Chlorpyriphos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	[NT]	[NT]	LCS-7	113%
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	LCS-7	111%
Fenitrothion	mg/kg	[NT]	[NT]	LCS-7	112%
Malathion	mg/kg	[NT]	[NT]	LCS-7	103%
Parathion	mg/kg	[NT]	[NT]	LCS-7	120%
Ronnel	mg/kg	[NT]	[NT]	LCS-7	105%
Surrogate TCMX	%	[NT]	[NT]	LCS-7	96%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS-7	17/08/2016
Date analysed	-	[NT]	[NT]	LCS-7	17/08/2016
Aroclor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	[NT]	[NT]	LCS-7	111%
Aroclor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	LCS-7	96%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	151848-11	17/08/2016 17/08/2016	LCS-7	17/08/2016
Date analysed	-	151848-11	18/08/2016 18/08/2016	LCS-7	18/08/2016
Arsenic	mg/kg	151848-11	5 5 RPD: 0	LCS-7	109%
Cadmium	mg/kg	151848-11	<0.4 <0.4	LCS-7	106%
Chromium	mg/kg	151848-11	18 17 RPD: 6	LCS-7	111%
Copper	mg/kg	151848-11	7 7 RPD: 0	LCS-7	109%
Lead	mg/kg	151848-11	35 37 RPD: 6	LCS-7	102%
Mercury	mg/kg	151848-11	0.1 0.1 RPD: 0	LCS-7	105%
Nickel	mg/kg	151848-11	4 3 RPD: 29	LCS-7	102%
Zinc	mg/kg	151848-11	38 37 RPD: 3	LCS-7	104%

Client Reference: 85556, Parramatta

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-21	17/08/2016 17/08/2016	LCS-8	17/08/2016
Date analysed	-	151848-21	18/08/2016 18/08/2016	LCS-8	18/08/2016
TRHC ₆ - C ₉	mg/kg	151848-21	<25 <25	LCS-8	104%
TRHC ₆ - C ₁₀	mg/kg	151848-21	<25 <25	LCS-8	104%
Benzene	mg/kg	151848-21	<0.2 <0.2	LCS-8	103%
Toluene	mg/kg	151848-21	<0.5 <0.5	LCS-8	106%
Ethylbenzene	mg/kg	151848-21	<1 <1	LCS-8	104%
m+p-xylene	mg/kg	151848-21	<2 <2	LCS-8	104%
o-Xylene	mg/kg	151848-21	<1 <1	LCS-8	104%
naphthalene	mg/kg	151848-21	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	151848-21	95 97 RPD: 2	LCS-8	106%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-21	17/08/2016 17/08/2016	LCS-8	17/08/2016
Date analysed	-	151848-21	18/08/2016 18/08/2016	LCS-8	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	151848-21	<50 <50	LCS-8	120%
TRHC ₁₅ - C ₂₈	mg/kg	151848-21	<100 <100	LCS-8	123%
TRHC ₂₉ - C ₃₆	mg/kg	151848-21	<100 <100	LCS-8	119%
TRH>C ₁₀ -C ₁₆	mg/kg	151848-21	<50 <50	LCS-8	120%
TRH>C ₁₆ -C ₃₄	mg/kg	151848-21	<100 <100	LCS-8	123%
TRH>C ₃₄ -C ₄₀	mg/kg	151848-21	<100 <100	LCS-8	119%
Surrogate o-Terphenyl	%	151848-21	92 85 RPD: 8	LCS-8	98%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	151848-21	17/08/2016 17/08/2016	LCS-8	17/08/2016
Date analysed	-	151848-21	17/08/2016 17/08/2016	LCS-8	17/08/2016
Naphthalene	mg/kg	151848-21	<0.1 <0.1	LCS-8	125%
Acenaphthylene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	151848-21	<0.1 <0.1	LCS-8	121%
Phenanthrene	mg/kg	151848-21	0.1 <0.1	LCS-8	114%
Anthracene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	151848-21	<0.1 <0.1	LCS-8	100%
Pyrene	mg/kg	151848-21	0.1 <0.1	LCS-8	106%
Benzo(a)anthracene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	151848-21	<0.1 <0.1	LCS-8	115%
Benzo(b,j+k)fluoranthene	mg/kg	151848-21	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	151848-21	<0.05 <0.05	LCS-8	129%
Indeno(1,2,3-c,d)pyrene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]

Client Reference: 85556, Parramatta

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	151848-21	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	151848-21	103 99 RPD: 4	LCS-8	98%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	151848-21	17/08/2016 17/08/2016		
Date analysed	-	151848-21	17/08/2016 17/08/2016		
HCB	mg/kg	151848-21	<0.1 <0.1		
alpha-BHC	mg/kg	151848-21	<0.1 <0.1		
gamma-BHC	mg/kg	151848-21	<0.1 <0.1		
beta-BHC	mg/kg	151848-21	<0.1 <0.1		
Heptachlor	mg/kg	151848-21	<0.1 <0.1		
delta-BHC	mg/kg	151848-21	<0.1 <0.1		
Aldrin	mg/kg	151848-21	<0.1 <0.1		
Heptachlor Epoxide	mg/kg	151848-21	<0.1 <0.1		
gamma-Chlordane	mg/kg	151848-21	<0.1 <0.1		
alpha-chlordane	mg/kg	151848-21	<0.1 <0.1		
Endosulfan I	mg/kg	151848-21	<0.1 <0.1		
pp-DDE	mg/kg	151848-21	<0.1 <0.1		
Dieldrin	mg/kg	151848-21	<0.1 <0.1		
Endrin	mg/kg	151848-21	<0.1 <0.1		
pp-DDD	mg/kg	151848-21	<0.1 <0.1		
Endosulfan II	mg/kg	151848-21	<0.1 <0.1		
pp-DDT	mg/kg	151848-21	<0.1 <0.1		
Endrin Aldehyde	mg/kg	151848-21	<0.1 <0.1		
Endosulfan Sulphate	mg/kg	151848-21	<0.1 <0.1		
Methoxychlor	mg/kg	151848-21	<0.1 <0.1		
Surrogate TCMX	%	151848-21	88 93 RPD: 6		

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	151848-21	17/08/2016 17/08/2016		
Date analysed	-	151848-21	17/08/2016 17/08/2016		
Azinphos-methyl (Guthion)	mg/kg	151848-21	<0.1 <0.1		
Bromophos-ethyl	mg/kg	151848-21	<0.1 <0.1		
Chlorpyriphos	mg/kg	151848-21	<0.1 <0.1		
Chlorpyriphos-methyl	mg/kg	151848-21	<0.1 <0.1		
Diazinon	mg/kg	151848-21	<0.1 <0.1		
Dichlorvos	mg/kg	151848-21	<0.1 <0.1		
Dimethoate	mg/kg	151848-21	<0.1 <0.1		
Ethion	mg/kg	151848-21	<0.1 <0.1		
Fenitrothion	mg/kg	151848-21	<0.1 <0.1		
Malathion	mg/kg	151848-21	<0.1 <0.1		
Parathion	mg/kg	151848-21	<0.1 <0.1		
Ronnel	mg/kg	151848-21	<0.1 <0.1		
Surrogate TCMX	%	151848-21	88 93 RPD: 6		
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	151848-21	17/08/2016 17/08/2016		
Date analysed	-	151848-21	17/08/2016 17/08/2016		
Aroclor 1016	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1221	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1232	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1242	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1248	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1254	mg/kg	151848-21	<0.1 <0.1		
Aroclor 1260	mg/kg	151848-21	<0.1 <0.1		
Surrogate TCLMX	%	151848-21	88 93 RPD: 6		
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	151848-21	17/08/2016 17/08/2016	LCS-8	17/08/2016
Date analysed	-	151848-21	18/08/2016 18/08/2016	LCS-8	18/08/2016
Arsenic	mg/kg	151848-21	8 8 RPD: 0	LCS-8	107%
Cadmium	mg/kg	151848-21	<0.4 <0.4	LCS-8	101%
Chromium	mg/kg	151848-21	22 19 RPD: 15	LCS-8	108%
Copper	mg/kg	151848-21	4 5 RPD: 22	LCS-8	110%
Lead	mg/kg	151848-21	15 17 RPD: 12	LCS-8	101%
Mercury	mg/kg	151848-21	<0.1 <0.1	LCS-8	108%
Nickel	mg/kg	151848-21	1 2 RPD: 67	LCS-8	100%
Zinc	mg/kg	151848-21	4 10 RPD: 86	LCS-8	100%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-31	17/08/2016 17/08/2016
Date analysed	-	151848-31	18/08/2016 18/08/2016
TRHC ₆ - C ₉	mg/kg	151848-31	<25 <25
TRHC ₆ - C ₁₀	mg/kg	151848-31	<25 <25
Benzene	mg/kg	151848-31	<0.2 <0.2
Toluene	mg/kg	151848-31	<0.5 <0.5
Ethylbenzene	mg/kg	151848-31	<1 <1
m+p-xylene	mg/kg	151848-31	<2 <2
o-Xylene	mg/kg	151848-31	<1 <1
naphthalene	mg/kg	151848-31	<1 <1
Surrogate aaa- Trifluorotoluene	%	151848-31	92 98 RPD: 6
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-31	17/08/2016 17/08/2016
Date analysed	-	151848-31	18/08/2016 18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	151848-31	<50 <50
TRHC ₁₅ - C ₂₈	mg/kg	151848-31	<100 <100
TRHC ₂₉ - C ₃₆	mg/kg	151848-31	<100 <100
TRH>C ₁₀ -C ₁₆	mg/kg	151848-31	<50 <50
TRH>C ₁₆ -C ₃₄	mg/kg	151848-31	<100 <100
TRH>C ₃₄ -C ₄₀	mg/kg	151848-31	<100 <100
Surrogate o-Terphenyl	%	151848-31	87 88 RPD: 1
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-31	17/08/2016 17/08/2016
Date analysed	-	151848-31	17/08/2016 17/08/2016
Naphthalene	mg/kg	151848-31	<0.1 <0.1
Acenaphthylene	mg/kg	151848-31	<0.1 <0.1
Acenaphthene	mg/kg	151848-31	<0.1 <0.1
Fluorene	mg/kg	151848-31	<0.1 <0.1
Phenanthrene	mg/kg	151848-31	<0.1 <0.1
Anthracene	mg/kg	151848-31	<0.1 <0.1
Fluoranthene	mg/kg	151848-31	<0.1 <0.1
Pyrene	mg/kg	151848-31	<0.1 <0.1
Benzo(a)anthracene	mg/kg	151848-31	<0.1 <0.1
Chrysene	mg/kg	151848-31	<0.1 <0.1
Benzo(b,j+k)fluoranthene	mg/kg	151848-31	<0.2 <0.2
Benzo(a)pyrene	mg/kg	151848-31	<0.05 <0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	151848-31	<0.1 <0.1
Dibenzo(a,h)anthracene	mg/kg	151848-31	<0.1 <0.1

Client Reference: 85556, Parramatta

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Benzo(g,h,i)perylene	mg/kg	151848-31	<0.1 <0.1		
<i>Surrogate p</i> -Terphenyl-d14	%	151848-31	98 93 RPD: 5		
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-31	17/08/2016 17/08/2016		
Date analysed	-	151848-31	18/08/2016 18/08/2016		
Arsenic	mg/kg	151848-31	13 16 RPD: 21		
Cadmium	mg/kg	151848-31	<0.4 <0.4		
Chromium	mg/kg	151848-31	30 31 RPD: 3		
Copper	mg/kg	151848-31	2 2 RPD: 0		
Lead	mg/kg	151848-31	13 13 RPD: 0		
Mercury	mg/kg	151848-31	<0.1 <0.1		
Nickel	mg/kg	151848-31	2 2 RPD: 0		
Zinc	mg/kg	151848-31	2 2 RPD: 0		
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Water	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS-W1	17/08/2016
Date analysed	-	[NT]	[NT]	LCS-W1	17/08/2016
TRHC ₆ - C ₉	µg/L	[NT]	[NT]	LCS-W1	122%
TRHC ₆ - C ₁₀	µg/L	[NT]	[NT]	LCS-W1	122%
Benzene	µg/L	[NT]	[NT]	LCS-W1	123%
Toluene	µg/L	[NT]	[NT]	LCS-W1	123%
Ethylbenzene	µg/L	[NT]	[NT]	LCS-W1	120%
m+p-xylene	µg/L	[NT]	[NT]	LCS-W1	122%
o-xylene	µg/L	[NT]	[NT]	LCS-W1	120%
Naphthalene	µg/L	[NT]	[NT]	[NR]	[NR]
<i>Surrogate</i> Dibromofluoromethane	%	[NT]	[NT]	LCS-W1	99%
<i>Surrogate</i> toluene-d8	%	[NT]	[NT]	LCS-W1	104%
<i>Surrogate</i> 4-BFB	%	[NT]	[NT]	LCS-W1	100%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	18/08/2016 18/08/2016
TRHC ₆ - C ₉	mg/kg	151848-41	<25 <25
TRHC ₆ - C ₁₀	mg/kg	151848-41	<25 <25
Benzene	mg/kg	151848-41	<0.2 <0.2
Toluene	mg/kg	151848-41	<0.5 <0.5
Ethylbenzene	mg/kg	151848-41	<1 <1
m+p-xylene	mg/kg	151848-41	<2 <2
o-Xylene	mg/kg	151848-41	<1 <1
naphthalene	mg/kg	151848-41	<1 <1
Surrogate aaa- Trifluorotoluene	%	151848-41	99 98 RPD: 1
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	18/08/2016 18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	151848-41	<50 <50
TRHC ₁₅ - C ₂₈	mg/kg	151848-41	<100 <100
TRHC ₂₉ - C ₃₆	mg/kg	151848-41	<100 <100
TRH>C ₁₀ -C ₁₆	mg/kg	151848-41	<50 <50
TRH>C ₁₆ -C ₃₄	mg/kg	151848-41	<100 <100
TRH>C ₃₄ -C ₄₀	mg/kg	151848-41	<100 <100
Surrogate o-Terphenyl	%	151848-41	87 85 RPD: 2
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	17/08/2016 17/08/2016
Naphthalene	mg/kg	151848-41	<0.1 <0.1
Acenaphthylene	mg/kg	151848-41	<0.1 <0.1
Acenaphthene	mg/kg	151848-41	<0.1 <0.1
Fluorene	mg/kg	151848-41	<0.1 <0.1
Phenanthrene	mg/kg	151848-41	<0.1 <0.1
Anthracene	mg/kg	151848-41	<0.1 <0.1
Fluoranthene	mg/kg	151848-41	<0.1 <0.1
Pyrene	mg/kg	151848-41	<0.1 <0.1
Benzo(a)anthracene	mg/kg	151848-41	<0.1 <0.1
Chrysene	mg/kg	151848-41	<0.1 <0.1
Benzo(b,j+k)fluoranthene	mg/kg	151848-41	<0.2 <0.2
Benzo(a)pyrene	mg/kg	151848-41	<0.05 <0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	151848-41	<0.1 <0.1
Dibenzo(a,h)anthracene	mg/kg	151848-41	<0.1 <0.1

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Benzo(g,h,i)perylene	mg/kg	151848-41	<0.1 <0.1
Surrogate p-Terphenyl-d14	%	151848-41	97 96 RPD: 1
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	17/08/2016 17/08/2016
HCB	mg/kg	151848-41	<0.1 <0.1
alpha-BHC	mg/kg	151848-41	<0.1 <0.1
gamma-BHC	mg/kg	151848-41	<0.1 <0.1
beta-BHC	mg/kg	151848-41	<0.1 <0.1
Heptachlor	mg/kg	151848-41	<0.1 <0.1
delta-BHC	mg/kg	151848-41	<0.1 <0.1
Aldrin	mg/kg	151848-41	<0.1 <0.1
Heptachlor Epoxide	mg/kg	151848-41	<0.1 <0.1
gamma-Chlordane	mg/kg	151848-41	<0.1 <0.1
alpha-chlordane	mg/kg	151848-41	<0.1 <0.1
Endosulfan I	mg/kg	151848-41	<0.1 <0.1
pp-DDE	mg/kg	151848-41	<0.1 <0.1
Dieldrin	mg/kg	151848-41	<0.1 <0.1
Endrin	mg/kg	151848-41	<0.1 <0.1
pp-DDD	mg/kg	151848-41	<0.1 <0.1
Endosulfan II	mg/kg	151848-41	<0.1 <0.1
pp-DDT	mg/kg	151848-41	<0.1 <0.1
Endrin Aldehyde	mg/kg	151848-41	<0.1 <0.1
Endosulfan Sulphate	mg/kg	151848-41	<0.1 <0.1
Methoxychlor	mg/kg	151848-41	<0.1 <0.1
Surrogate TCMX	%	151848-41	92 91 RPD: 1

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	17/08/2016 17/08/2016
Azinphos-methyl (Guthion)	mg/kg	151848-41	<0.1 <0.1
Bromophos-ethyl	mg/kg	151848-41	<0.1 <0.1
Chlorpyrifos	mg/kg	151848-41	<0.1 <0.1
Chlorpyrifos-methyl	mg/kg	151848-41	<0.1 <0.1
Diazinon	mg/kg	151848-41	<0.1 <0.1
Dichlorvos	mg/kg	151848-41	<0.1 <0.1
Dimethoate	mg/kg	151848-41	<0.1 <0.1
Ethion	mg/kg	151848-41	<0.1 <0.1
Fenitrothion	mg/kg	151848-41	<0.1 <0.1
Malathion	mg/kg	151848-41	<0.1 <0.1
Parathion	mg/kg	151848-41	<0.1 <0.1
Ronnel	mg/kg	151848-41	<0.1 <0.1
Surrogate TCMX	%	151848-41	92 91 RPD: 1
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	17/08/2016 17/08/2016
Aroclor 1016	mg/kg	151848-41	<0.1 <0.1
Aroclor 1221	mg/kg	151848-41	<0.1 <0.1
Aroclor 1232	mg/kg	151848-41	<0.1 <0.1
Aroclor 1242	mg/kg	151848-41	<0.1 <0.1
Aroclor 1248	mg/kg	151848-41	<0.1 <0.1
Aroclor 1254	mg/kg	151848-41	<0.1 <0.1
Aroclor 1260	mg/kg	151848-41	<0.1 <0.1
Surrogate TCLMX	%	151848-41	92 91 RPD: 1
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date prepared	-	151848-41	17/08/2016 17/08/2016
Date analysed	-	151848-41	18/08/2016 18/08/2016
Arsenic	mg/kg	151848-41	7 9 RPD: 25
Cadmium	mg/kg	151848-41	<0.4 <0.4
Chromium	mg/kg	151848-41	17 21 RPD: 21
Copper	mg/kg	151848-41	4 3 RPD: 29
Lead	mg/kg	151848-41	27 25 RPD: 8
Mercury	mg/kg	151848-41	<0.1 <0.1
Nickel	mg/kg	151848-41	2 2 RPD: 0
Zinc	mg/kg	151848-41	17 14 RPD: 19

Client Reference: 85556, Parramatta

QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	151848-3	105%
QUALITY CONTROL Misc Inorg - Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	LCS-1	18/08/2016
Date analysed	-	[NT]	[NT]	LCS-1	18/08/2016
pH 1:5 soil:water	pH Units	[NT]	[NT]	LCS-1	100%
QUALITY CONTROL vTRH(C6-C10)/BTEXNin Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	151848-51	17/08/2016 17/08/2016		
Date analysed	-	151848-51	19/08/2016 19/08/2016		
TRHC ₆ - C ₉	mg/kg	151848-51	<25 <25		
TRHC ₆ - C ₁₀	mg/kg	151848-51	<25 <25		
Benzene	mg/kg	151848-51	<0.2 <0.2		
Toluene	mg/kg	151848-51	<0.5 <0.5		
Ethylbenzene	mg/kg	151848-51	<1 <1		
m+p-xylene	mg/kg	151848-51	<2 <2		
o-Xylene	mg/kg	151848-51	<1 <1		
naphthalene	mg/kg	151848-51	<1 <1		
Surrogate aaa- Trifluorotoluene	%	151848-51	99 99 RPD: 0		
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date extracted	-	151848-51	17/08/2016 17/08/2016		
Date analysed	-	151848-51	18/08/2016 18/08/2016		
TRHC ₁₀ - C ₁₄	mg/kg	151848-51	<50 <50		
TRHC ₁₅ - C ₂₈	mg/kg	151848-51	<100 <100		
TRHC ₂₉ - C ₃₆	mg/kg	151848-51	<100 <100		
TRH>C ₁₀ -C ₁₆	mg/kg	151848-51	<50 <50		
TRH>C ₁₆ -C ₃₄	mg/kg	151848-51	<100 <100		
TRH>C ₃₄ -C ₄₀	mg/kg	151848-51	<100 <100		
Surrogate o-Terphenyl	%	151848-51	84 84 RPD: 0		

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-51	17/08/2016 17/08/2016
Date analysed	-	151848-51	17/08/2016 17/08/2016
Naphthalene	mg/kg	151848-51	<0.1 <0.1
Acenaphthylene	mg/kg	151848-51	<0.1 <0.1
Acenaphthene	mg/kg	151848-51	<0.1 <0.1
Fluorene	mg/kg	151848-51	<0.1 <0.1
Phenanthrene	mg/kg	151848-51	<0.1 0.1
Anthracene	mg/kg	151848-51	<0.1 <0.1
Fluoranthene	mg/kg	151848-51	0.1 0.2 RPD: 67
Pyrene	mg/kg	151848-51	0.1 0.2 RPD: 67
Benzo(a)anthracene	mg/kg	151848-51	<0.1 <0.1
Chrysene	mg/kg	151848-51	<0.1 0.1
Benzo(b,j+k)fluoranthene	mg/kg	151848-51	<0.2 <0.2
Benzo(a)pyrene	mg/kg	151848-51	<0.05 0.07
Indeno(1,2,3-c,d)pyrene	mg/kg	151848-51	<0.1 <0.1
Dibenzo(a,h)anthracene	mg/kg	151848-51	<0.1 <0.1
Benzo(g,h,i)perylene	mg/kg	151848-51	<0.1 <0.1
Surrogate <i>p</i> -Terphenyl-d14	%	151848-51	98 102 RPD: 4
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-51	17/08/2016 17/08/2016
Date analysed	-	151848-51	17/08/2016 17/08/2016
HCB	mg/kg	151848-51	<0.1 <0.1
alpha-BHC	mg/kg	151848-51	<0.1 <0.1
gamma-BHC	mg/kg	151848-51	<0.1 <0.1
beta-BHC	mg/kg	151848-51	<0.1 <0.1
Heptachlor	mg/kg	151848-51	<0.1 <0.1
delta-BHC	mg/kg	151848-51	<0.1 <0.1
Aldrin	mg/kg	151848-51	<0.1 <0.1
Heptachlor Epoxide	mg/kg	151848-51	<0.1 <0.1
gamma-Chlordane	mg/kg	151848-51	<0.1 <0.1
alpha-chlordane	mg/kg	151848-51	<0.1 <0.1
Endosulfan I	mg/kg	151848-51	<0.1 <0.1
pp-DDE	mg/kg	151848-51	<0.1 <0.1
Dieldrin	mg/kg	151848-51	<0.1 <0.1
Endrin	mg/kg	151848-51	<0.1 <0.1
pp-DDD	mg/kg	151848-51	<0.1 <0.1
Endosulfan II	mg/kg	151848-51	<0.1 <0.1
pp-DDT	mg/kg	151848-51	<0.1 <0.1
Endrin Aldehyde	mg/kg	151848-51	<0.1 <0.1
Endosulfan Sulphate	mg/kg	151848-51	<0.1 <0.1

Client Reference: 85556, Parramatta

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Methoxychlor	mg/kg	151848-51	<0.1 <0.1
<i>Surrogate</i> TCMX	%	151848-51	90 93 RPD: 3
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-51	17/08/2016 17/08/2016
Date analysed	-	151848-51	17/08/2016 17/08/2016
Azinphos-methyl (Guthion)	mg/kg	151848-51	<0.1 <0.1
Bromophos-ethyl	mg/kg	151848-51	<0.1 <0.1
Chlorpyriphos	mg/kg	151848-51	<0.1 <0.1
Chlorpyriphos-methyl	mg/kg	151848-51	<0.1 <0.1
Diazinon	mg/kg	151848-51	<0.1 <0.1
Dichlorvos	mg/kg	151848-51	<0.1 <0.1
Dimethoate	mg/kg	151848-51	<0.1 <0.1
Ethion	mg/kg	151848-51	<0.1 <0.1
Fenitrothion	mg/kg	151848-51	<0.1 <0.1
Malathion	mg/kg	151848-51	<0.1 <0.1
Parathion	mg/kg	151848-51	<0.1 <0.1
Ronnel	mg/kg	151848-51	<0.1 <0.1
<i>Surrogate</i> TCMX	%	151848-51	90 93 RPD: 3
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date extracted	-	151848-51	17/08/2016 17/08/2016
Date analysed	-	151848-51	17/08/2016 17/08/2016
Aroclor 1016	mg/kg	151848-51	<0.1 <0.1
Aroclor 1221	mg/kg	151848-51	<0.1 <0.1
Aroclor 1232	mg/kg	151848-51	<0.1 <0.1
Aroclor 1242	mg/kg	151848-51	<0.1 <0.1
Aroclor 1248	mg/kg	151848-51	<0.1 <0.1
Aroclor 1254	mg/kg	151848-51	<0.1 <0.1
Aroclor 1260	mg/kg	151848-51	<0.1 <0.1
<i>Surrogate</i> TCLMX	%	151848-51	90 93 RPD: 3

Client Reference: 85556, Parramatta

QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-51	17/08/2016 17/08/2016		
Date analysed	-	151848-51	18/08/2016 18/08/2016		
Arsenic	mg/kg	151848-51	7 8 RPD: 13		
Cadmium	mg/kg	151848-51	<0.4 <0.4		
Chromium	mg/kg	151848-51	20 20 RPD: 0		
Copper	mg/kg	151848-51	26 24 RPD: 8		
Lead	mg/kg	151848-51	65 60 RPD: 8		
Mercury	mg/kg	151848-51	0.2 0.1 RPD: 67		
Nickel	mg/kg	151848-51	11 9 RPD: 20		
Zinc	mg/kg	151848-51	59 61 RPD: 3		
QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	LCS-2	17/08/2016
Date analysed	-	[NT]	[NT]	LCS-2	17/08/2016
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	LCS-2	109%
QUALITY CONTROL CEC	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	LCS-2	19/08/2016
Date analysed	-	[NT]	[NT]	LCS-2	19/08/2016
Exchangeable Ca	meq/100 g	[NT]	[NT]	LCS-2	107%
Exchangeable K	meq/100 g	[NT]	[NT]	LCS-2	100%
Exchangeable Mg	meq/100 g	[NT]	[NT]	LCS-2	105%
Exchangeable Na	meq/100 g	[NT]	[NT]	LCS-2	113%
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	18/08/2016
TRHC ₆ - C ₉	mg/kg	[NT]	[NT]	151848-3	115%
TRHC ₆ - C ₁₀	mg/kg	[NT]	[NT]	151848-3	115%
Benzene	mg/kg	[NT]	[NT]	151848-3	109%
Toluene	mg/kg	[NT]	[NT]	151848-3	112%
Ethylbenzene	mg/kg	[NT]	[NT]	151848-3	118%
m+p-xylene	mg/kg	[NT]	[NT]	151848-3	119%
o-Xylene	mg/kg	[NT]	[NT]	151848-3	120%
naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	151848-3	109%

Client Reference: 85556, Parramatta

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	[NT]	[NT]	151848-3	115%
TRHC ₁₅ - C ₂₈	mg/kg	[NT]	[NT]	151848-3	115%
TRHC ₂₉ - C ₃₆	mg/kg	[NT]	[NT]	151848-3	104%
TRH>C ₁₀ -C ₁₆	mg/kg	[NT]	[NT]	151848-3	115%
TRH>C ₁₆ -C ₃₄	mg/kg	[NT]	[NT]	151848-3	115%
TRH>C ₃₄ -C ₄₀	mg/kg	[NT]	[NT]	151848-3	104%
Surrogate o-Terphenyl	%	[NT]	[NT]	151848-3	86%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
Naphthalene	mg/kg	[NT]	[NT]	151848-3	127%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	151848-3	124%
Phenanthrene	mg/kg	[NT]	[NT]	151848-3	111%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	151848-3	96%
Pyrene	mg/kg	[NT]	[NT]	151848-3	103%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	151848-3	112%
Benzo(b,j+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	151848-3	130%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	151848-3	93%

Client Reference: 85556, Parramatta

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	151848-3	89%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	151848-3	99%
Heptachlor	mg/kg	[NT]	[NT]	151848-3	98%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	151848-3	98%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	151848-3	98%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	151848-3	106%
Dieldrin	mg/kg	[NT]	[NT]	151848-3	101%
Endrin	mg/kg	[NT]	[NT]	151848-3	98%
pp-DDD	mg/kg	[NT]	[NT]	151848-3	109%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	151848-3	103%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	151848-3	95%

Client Reference: 85556, Parramatta

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyriphos	mg/kg	[NT]	[NT]	151848-3	91%
Chlorpyriphos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	[NT]	[NT]	151848-3	92%
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	151848-3	95%
Fenitrothion	mg/kg	[NT]	[NT]	151848-3	136%
Malathion	mg/kg	[NT]	[NT]	151848-3	98%
Parathion	mg/kg	[NT]	[NT]	151848-3	111%
Ronnel	mg/kg	[NT]	[NT]	151848-3	99%
Surrogate TCMX	%	[NT]	[NT]	151848-3	88%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	17/08/2016
Aroclor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	[NT]	[NT]	151848-3	127%
Aroclor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	151848-3	88%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151848-3	17/08/2016
Date analysed	-	[NT]	[NT]	151848-3	18/08/2016
Arsenic	mg/kg	[NT]	[NT]	151848-3	90%
Cadmium	mg/kg	[NT]	[NT]	151848-3	101%
Chromium	mg/kg	[NT]	[NT]	151848-3	102%
Copper	mg/kg	[NT]	[NT]	151848-3	106%
Lead	mg/kg	[NT]	[NT]	151848-3	94%
Mercury	mg/kg	[NT]	[NT]	151848-3	130%
Nickel	mg/kg	[NT]	[NT]	151848-3	97%
Zinc	mg/kg	[NT]	[NT]	151848-3	96%

Client Reference: 85556, Parramatta

QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	151848-16	17/08/2016 17/08/2016	151848-3	17/08/2016
Date analysed	-	151848-16	17/08/2016 17/08/2016	151848-3	17/08/2016
Total Phenolics (as Phenol)	mg/kg	151848-16	<5 <5	151848-3	103%
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	18/08/2016
TRHC ₆ - C ₉	mg/kg	[NT]	[NT]	151848-22	100%
TRHC ₆ - C ₁₀	mg/kg	[NT]	[NT]	151848-22	100%
Benzene	mg/kg	[NT]	[NT]	151848-22	98%
Toluene	mg/kg	[NT]	[NT]	151848-22	102%
Ethylbenzene	mg/kg	[NT]	[NT]	151848-22	100%
m+p-xylene	mg/kg	[NT]	[NT]	151848-22	99%
o-Xylene	mg/kg	[NT]	[NT]	151848-22	101%
naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	[NT]	[NT]	151848-22	98%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	[NT]	[NT]	151848-22	114%
TRHC ₁₅ - C ₂₈	mg/kg	[NT]	[NT]	151848-22	113%
TRHC ₂₉ - C ₃₆	mg/kg	[NT]	[NT]	151848-22	100%
TRH>C ₁₀ -C ₁₆	mg/kg	[NT]	[NT]	151848-22	114%
TRH>C ₁₆ -C ₃₄	mg/kg	[NT]	[NT]	151848-22	113%
TRH>C ₃₄ -C ₄₀	mg/kg	[NT]	[NT]	151848-22	100%
Surrogate o-Terphenyl	%	[NT]	[NT]	151848-22	90%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	17/08/2016
Naphthalene	mg/kg	[NT]	[NT]	151848-22	127%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	151848-22	123%
Phenanthrene	mg/kg	[NT]	[NT]	151848-22	104%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	151848-22	89%
Pyrene	mg/kg	[NT]	[NT]	151848-22	93%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]

Client Reference: 85556, Parramatta

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Chrysene	mg/kg	[NT]	[NT]	151848-22	109%
Benzo(b,j+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	151848-22	117%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	151848-22	93%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	17/08/2016
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	151848-22	92%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	151848-22	104%
Heptachlor	mg/kg	[NT]	[NT]	151848-22	101%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	151848-22	102%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	151848-22	105%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	151848-22	118%
Dieldrin	mg/kg	[NT]	[NT]	151848-22	107%
Endrin	mg/kg	[NT]	[NT]	151848-22	103%
pp-DDD	mg/kg	[NT]	[NT]	151848-22	115%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	151848-22	107%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	151848-22	98%

Client Reference: 85556, Parramatta

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	17/08/2016
Azinphos-methyl (Guthion)	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyriphos	mg/kg	[NT]	[NT]	151848-22	89%
Chlorpyriphos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	[NT]	[NT]	151848-22	82%
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	151848-22	103%
Fenitrothion	mg/kg	[NT]	[NT]	151848-22	109%
Malathion	mg/kg	[NT]	[NT]	151848-22	85%
Parathion	mg/kg	[NT]	[NT]	151848-22	103%
Ronnel	mg/kg	[NT]	[NT]	151848-22	94%
Surrogate TCMX	%	[NT]	[NT]	151848-22	89%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	17/08/2016
Aroclor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	[NT]	[NT]	151848-22	115%
Aroclor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	151848-22	89%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151848-22	17/08/2016
Date analysed	-	[NT]	[NT]	151848-22	18/08/2016
Arsenic	mg/kg	[NT]	[NT]	151848-22	91%
Cadmium	mg/kg	[NT]	[NT]	151848-22	99%
Chromium	mg/kg	[NT]	[NT]	151848-22	108%
Copper	mg/kg	[NT]	[NT]	151848-22	112%
Lead	mg/kg	[NT]	[NT]	151848-22	96%
Mercury	mg/kg	[NT]	[NT]	151848-22	91%
Nickel	mg/kg	[NT]	[NT]	151848-22	96%
Zinc	mg/kg	[NT]	[NT]	151848-22	84%

Client Reference: 85556, Parramatta

QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-32	17/08/2016 17/08/2016		
Date analysed	-	151848-32	17/08/2016 17/08/2016		
Total Phenolics (as Phenol)	mg/kg	151848-32	<5 <5		
QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-42	17/08/2016
Date analysed	-	[NT]	[NT]	151848-42	18/08/2016
TRHC ₆ - C ₉	mg/kg	[NT]	[NT]	151848-42	95%
TRHC ₆ - C ₁₀	mg/kg	[NT]	[NT]	151848-42	95%
Benzene	mg/kg	[NT]	[NT]	151848-42	94%
Toluene	mg/kg	[NT]	[NT]	151848-42	97%
Ethylbenzene	mg/kg	[NT]	[NT]	151848-42	96%
m+p-xylene	mg/kg	[NT]	[NT]	151848-42	94%
o-Xylene	mg/kg	[NT]	[NT]	151848-42	96%
naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	[NT]	[NT]	151848-42	97%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-42	17/08/2016
Date analysed	-	[NT]	[NT]	151848-42	18/08/2016
TRHC ₁₀ - C ₁₄	mg/kg	[NT]	[NT]	151848-42	115%
TRHC ₁₅ - C ₂₈	mg/kg	[NT]	[NT]	151848-42	117%
TRHC ₂₉ - C ₃₆	mg/kg	[NT]	[NT]	151848-42	115%
TRH>C ₁₀ -C ₁₆	mg/kg	[NT]	[NT]	151848-42	115%
TRH>C ₁₆ -C ₃₄	mg/kg	[NT]	[NT]	151848-42	117%
TRH>C ₃₄ -C ₄₀	mg/kg	[NT]	[NT]	151848-42	115%
Surrogate o-Terphenyl	%	[NT]	[NT]	151848-42	87%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	151848-42	17/08/2016
Date analysed	-	[NT]	[NT]	151848-42	17/08/2016
Naphthalene	mg/kg	[NT]	[NT]	151848-42	122%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	151848-42	83%
Phenanthrene	mg/kg	[NT]	[NT]	151848-42	113%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	151848-42	100%
Pyrene	mg/kg	[NT]	[NT]	151848-42	106%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]

Client Reference: 85556, Parramatta

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Chrysene	mg/kg	[NT]	[NT]	151848-42	115%
Benzo(b,j+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	151848-42	123%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	151848-42	96%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151848-42	17/08/2016
Date analysed	-	[NT]	[NT]	151848-42	18/08/2016
Arsenic	mg/kg	[NT]	[NT]	151848-42	81%
Cadmium	mg/kg	[NT]	[NT]	151848-42	90%
Chromium	mg/kg	[NT]	[NT]	151848-42	94%
Copper	mg/kg	[NT]	[NT]	151848-42	107%
Lead	mg/kg	[NT]	[NT]	151848-42	77%
Mercury	mg/kg	[NT]	[NT]	151848-42	120%
Nickel	mg/kg	[NT]	[NT]	151848-42	88%
Zinc	mg/kg	[NT]	[NT]	151848-42	87%
QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-47	17/08/2016 17/08/2016		
Date analysed	-	151848-47	17/08/2016 17/08/2016		
Total Phenolics (as Phenol)	mg/kg	151848-47	<5 <5		
QUALITY CONTROL Misc Soil - Inorg	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	151848-34	17/08/2016
Date analysed	-	[NT]	[NT]	151848-34	17/08/2016
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	151848-34	104%
QUALITY CONTROL Misc Inorg - Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-5	18/08/2016 18/08/2016		
Date analysed	-	151848-5	18/08/2016 18/08/2016		
pH 1:5 soil:water	pH Units	151848-5	7.0 6.7 RPD: 4		
QUALITY CONTROL CEC	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	151848-17	19/08/2016 19/08/2016		
Date analysed	-	151848-17	19/08/2016 19/08/2016		
Exchangeable Ca	meq/100 g	151848-17	5.8 5.7 RPD: 2		
Exchangeable K	meq/100 g	151848-17	0.2 0.2 RPD: 0		

Client Reference: 85556, Parramatta

QUALITY CONTROL CEC	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Exchangeable Mg	meq/100 g	151848-17	2.0 1.9 RPD: 5
Exchangeable Na	meq/100 g	151848-17	<0.1 <0.1

Report Comments:

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 151848-21 for Zn. Therefore a triplicate result has been issued as laboratory sample number 151848-62.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client.

Sample 151848-51; Chrysotile, Amosite and Crocidolite asbestos identified in matted material, it is estimated to be 0.02g/kg in 38.37g of soil (i.e. < reporting limit for the method of 0.1g/kg).

PAH in soil:

The RPD for duplicate results is accepted due to the non homogenous nature of the sample/s.

Asbestos ID was analysed by Approved Identifier: Paul Ching

Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test

NR: Test not required

<: Less than

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

>: Greater than

NT: Not tested

NA: Test not required

LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Aileen Hie

From: Christopher Bagia <Chris.Bagia@douglaspartners.com.au>
Sent: Wednesday, 24 August 2016 9:56 AM
To: Aileen Hie
Cc: John Russell
Subject: TCLP

Hi Aileen

Could you please schedule these samples for TCLP:

151848 A.

Job Number: 85556.00

Due 31/8.

ELS Ref Number: 151848

Samples:

TP10 0.1 – 0.2 (TCLP PAH) - 15

TP18 0.1 – 0.2 (TCLP Metals (8)) - 26

TP25 0.05 – 0.1 (TCLP Metals (8)) - 33.

On Standard Turnaround

Thank you so much

Kindest Regards

Chris

Christopher Bagia | Environmental Scientist
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
96 Hermitage Road West Ryde NSW 2114 | PO Box 472 West Ryde NSW 1685
P: 02 9809 0666 | F: 02 9809 4095 | E: Chris.Bagia@douglaspartners.com.au

FINANCIAL REVIEW
CLIENT CHO
FINALIST

This email is confidential. If you are not the intended recipient, please notify us immediately and be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. Please note that the company does not make any commitment through emails not confirmed by fax or letter.

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

151848-A

Client:

Douglas Partners Pty Ltd
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Chris Bagia

Sample log in details:

Your Reference:	85556, Parramatta
No. of samples:	58 Soils, 1 Material, 2 Waters
Date samples received / completed instructions received	15/08/16 / 24/08/16

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 31/08/16 / 30/08/16
Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing **Tests not covered by NATA are denoted with *.**

Results Approved By:

David Springer
General Manager

Envirolab Reference: 151848-A
Revision No: R 00



Metals in TCLP USEPA 1311	UNITS	151848-A-15	151848-A-26	151848-A-33
Our Reference:	-----	TP10	TP18	TP25
Your Reference:	-			
Depth	-----	0.1-0.2	0.1-0.2	0.05-0.1
Date Sampled		11/08/2016	11/08/2016	11/08/2016
Type of sample		Soil	Soil	Soil
Date extracted	-	24/08/2016	30/08/2016	30/08/2016
Date analysed	-	25/08/2016	30/08/2016	30/08/2016
pH of soil for fluid# determ.	pH units	7.6	6.2	6.9
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.5
Extraction fluid used	-	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0
Arsenic in TCLP	mg/L	[NA]	<0.05	<0.05
Cadmium in TCLP	mg/L	[NA]	<0.01	<0.01
Chromium in TCLP	mg/L	[NA]	<0.01	<0.01
Copper in TCLP	mg/L	[NA]	<0.01	<0.01
Lead in TCLP	mg/L	[NA]	<0.03	<0.03
Mercury in TCLP	mg/L	[NA]	<0.0005	<0.0005
Nickel in TCLP	mg/L	[NA]	<0.02	0.04
Zinc in TCLP	mg/L	[NA]	<0.02	0.02

PAHs in TCLP (USEPA 1311)		
Our Reference:	UNITS	151848-A-15
Your Reference	-----	TP10
	-	
Depth	-----	0.1-0.2
Date Sampled		11/08/2016
Type of sample		Soil
Date extracted	-	25/08/2016
Date analysed	-	25/08/2016
Naphthalene in TCLP	mg/L	<0.001
Acenaphthylene in TCLP	mg/L	<0.001
Acenaphthene in TCLP	mg/L	<0.001
Fluorene in TCLP	mg/L	<0.001
Phenanthrene in TCLP	mg/L	<0.001
Anthracene in TCLP	mg/L	<0.001
Fluoranthene in TCLP	mg/L	<0.001
Pyrene in TCLP	mg/L	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001
Chrysene in TCLP	mg/L	<0.001
Benzo(b,j,k)fluoranthene in TCLP	mg/L	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001
Total +ve PAH's	mg/L	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	99

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using in house method INORG-004.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-012	Leachates are extracted with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.

Client Reference: 85556, Parramatta

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II %RPD		
Date extracted	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Arsenic in TCLP	mg/L	0.05	Metals-020 ICP-AES	<0.05	[NT]	[NT]	LCS-W1	114%
Cadmium in TCLP	mg/L	0.01	Metals-020 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	114%
Chromium in TCLP	mg/L	0.01	Metals-020 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	109%
Copper in TCLP	mg/L	0.01	Metals-020 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	106%
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	104%
Mercury in TCLP	mg/L	0.0005	Metals-021 CV-AAS	<0.0005	[NT]	[NT]	LCS-W1	100%
Nickel in TCLP	mg/L	0.02	Metals-020 ICP-AES	<0.02	[NT]	[NT]	LCS-W1	107%
Zinc in TCLP	mg/L	0.02	Metals-020 ICP-AES	<0.02	[NT]	[NT]	LCS-W1	112%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			25/08/2016	[NT]	[NT]	LCS-W1	25/08/2016
Date analysed	-			25/08/2016	[NT]	[NT]	LCS-W1	25/08/2016
Naphthalene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	84%
Acenaphthylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	84%
Phenanthrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	94%
Anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	81%
Pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	82%
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(b)fluoranthene in TCLP	mg/L	0.002	Org-012	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	LCS-W1	89%
Indeno(1,2,3-c,d)pyrene -TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	78	[NT]	[NT]	LCS-W1	74%

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test
NR: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

CHAIN OF CUSTODY



Client: Douglas Partners
 Contact Person: Christopher Bagla
 Project Mgr: John Russell

Address: 96 Hermitage Road
 West Ryde NSW 2114

Phone: 9809 0666
 Email: Chris.Bagla@douglaspartners.com.au
 John.Russell@douglaspartners.com.au

Project Number 85556.00
 Project Name: Rydalmere Development Precinct, Parramatta
 PO No.:

lab Quote No.: Standard
 Date results required:
 Or choose: 48h
 Note: Inform lab in advance if urgent turnaround is required - surcharges apply

Report format: esdat / PDF / Excel

Comments:

To: EnviroLab Services
 Contact Person: Aileen Hie
 Address: 12 Ashley Street
 Chatswood NSW 2068

Phone: 02 9910 6200
 Fax: 02 9910 6201
 Email: ahie@envirolab.com.au

Laboratory Report No:
 Lab Comments:

Sample Information				Tests Required						Comments			
Lab Sample ID	Field Sample ID	Depth	Date sampled	Container type	Type of sample	Heavy Metals (8)	PAH	TRH	BTEX		Phenols	OCP,OPP,PCB	Nutrients
2	BH14	-	17/03/2016	P,G	W	X	X	X	X	X	X	X	
	BD1/260816	-	17/03/2016	P,G	W	X	X	X	X	X	X	X	
			26/03										

Relinquished by: Douglas Partners
 Hand delivered / Courier (by whom)
 Condition of Sample at dispatch Cool or Ambient (circle one)
 Temperature (if Applicable):
 Print Name: Christopher Bagla
 Date & Time: 26/8/16 10:30am
 Signature: [Signature]

Sample Receipt
 Received by (Company): EUS
 Print Name: P. Kelly
 Date & Time: 28/8/2016 14:30
 Signature: [Signature]

Lab use only:
 Samples Received: Cool or Ambient (circle one)
 Temperature Received at: 14.9 (if applicable)
 Transported by: Hand delivered / courier

EnviroLAB
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200

Job No: 152490
 Date Received: 28/8/2016
 Time Received: 14:30
 Received by: P. Kelly
 Temp: Cool/Ambient 14.9
 Cooling: Ice/icepack
 Security: intact/broken/None



CERTIFICATE OF ANALYSIS

152490

Client:

Douglas Partners Pty Ltd
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Chris Bagia

Sample log in details:

Your Reference:	85556.00, Parramatta
No. of samples:	2 waters
Date samples received / completed instructions received	26/08/2016 / 26/08/2016

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 2/09/16 / 1/09/16
Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing **Tests not covered by NATA are denoted with *.**

Results Approved By:

David Springer
General Manager



vTRH(C6-C10)/BTEXN in Water	UNITS	152490-1	152490-2
Our Reference:	-----	BH14	BD1/260816
Your Reference:	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
TRHC ₆ - C ₉	µg/L	<10	<10
TRHC ₆ - C ₁₀	µg/L	<10	<10
TRHC ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	<1
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	<2	<2
o-xylene	µg/L	<1	<1
Naphthalene	µg/L	<1	<1
Surrogate Dibromofluoromethane	%	113	114
Surrogate toluene-d8	%	96	97
Surrogate 4-BFB	%	104	105

svTRH (C10-C40) in Water			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	31/08/2016	29/08/2016
TRHC ₁₀ - C ₁₄	µg/L	<50	<50
TRHC ₁₅ - C ₂₈	µg/L	<100	<100
TRHC ₂₉ - C ₃₆	µg/L	<100	<100
TRH>C ₁₀ - C ₁₆	µg/L	<50	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50	<50
TRH>C ₁₆ - C ₃₄	µg/L	<100	<100
TRH>C ₃₄ - C ₄₀	µg/L	<100	<100
Surrogate o-Terphenyl	%	95	96

PAHs in Water Our Reference: Your Reference	UNITS ----- -	152490-1 BH14	152490-2 BD1/260816
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
Naphthalene	µg/L	<1	<1
Acenaphthylene	µg/L	<1	<1
Acenaphthene	µg/L	<1	<1
Fluorene	µg/L	<1	<1
Phenanthrene	µg/L	<1	<1
Anthracene	µg/L	<1	<1
Fluoranthene	µg/L	<1	<1
Pyrene	µg/L	<1	<1
Benzo(a)anthracene	µg/L	<1	<1
Chrysene	µg/L	<1	<1
Benzo(b,j+k)fluoranthene	µg/L	<2	<2
Benzo(a)pyrene	µg/L	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1	<1
Dibenzo(a,h)anthracene	µg/L	<1	<1
Benzo(g,h,i)perylene	µg/L	<1	<1
Benzo(a)pyrene TEQ	µg/L	<5	<5
Total +ve PAH's	µg/L	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	82	77

OCP in water Our Reference: Your Reference	UNITS ----- -	152490-1 BH14	152490-2 BD1/260816
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
HCB	µg/L	<0.2	<0.2
alpha-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate TCMX	%	132	123

OP Pesticides in water			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
Azinphos-methyl (Guthion)	µg/L	<0.2	<0.2
Bromophos ethyl	µg/L	<0.2	<0.2
Chlorpyriphos	µg/L	<0.2	<0.2
Chlorpyriphos-methyl	µg/L	<0.2	<0.2
Diazinon	µg/L	<0.2	<0.2
Dichlorovos	µg/L	<0.2	<0.2
Dimethoate	µg/L	<0.2	<0.2
Ethion	µg/L	<0.2	<0.2
Fenitrothion	µg/L	<0.2	<0.2
Malathion	µg/L	<0.2	<0.2
Parathion	µg/L	<0.2	<0.2
Ronnel	µg/L	<0.2	<0.2
Surrogate TCMX	%	132	123

PCBs in Water Our Reference: Your Reference	UNITS ----- -	152490-1 BH14	152490-2 BD1/260816
Date Sampled Type of sample	----- -----	26/08/2016 Water	26/08/2016 Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate TCLMX	%	132	123

Total Phenolics in Water			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date extracted	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05

HM in water - dissolved			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date prepared	-	30/08/2016	30/08/2016
Date analysed	-	30/08/2016	30/08/2016
Arsenic-Dissolved	µg/L	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	<1
Copper-Dissolved	µg/L	4	5
Lead-Dissolved	µg/L	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05
Nickel-Dissolved	µg/L	42	43
Zinc-Dissolved	µg/L	120	120

Metals in Waters - Acid extractable			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date prepared	-	30/08/2016	30/08/2016
Date analysed	-	30/08/2016	30/08/2016
Phosphorus - Total	mg/L	<0.05	<0.05

Miscellaneous Inorganics			
Our Reference:	UNITS	152490-1	152490-2
Your Reference	-----	BH14	BD1/260816
	-		
Date Sampled	-----	26/08/2016	26/08/2016
Type of sample		Water	Water
Date prepared	-	29/08/2016	29/08/2016
Date analysed	-	29/08/2016	29/08/2016
Total Nitrogen in water	mg/L	0.4	0.3
NOx as N in water	mg/L	0.01	0.008
Ammonia as N in water	mg/L	0.029	0.033
Phosphate as P in water	mg/L	0.20	0.21

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-020	Determination of various metals by ICP-AES.
Inorg-055/062	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen.
Inorg-055	Nitrate - determined colourimetrically. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Soils are analysed following a KCl extraction.
Inorg-060	Phosphate determined colourimetrically based on EPA365.1 and APHA latest edition 4500 P E. Soils are analysed following a water extraction.

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	79%
TRHC ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	79%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	80%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	78%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	79%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W1	79%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	79%
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluoromethane	%		Org-016	113	[NT]	[NT]	LCS-W1	113%
Surrogate toluene-d8	%		Org-016	96	[NT]	[NT]	LCS-W1	98%
Surrogate 4-BFB	%		Org-016	104	[NT]	[NT]	LCS-W1	98%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH(C10-C40) in Water						Base II Duplicate II %RPD		
Date extracted	-			30/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W2	30/08/2016
Date analysed	-			30/08/2016	152490-1	31/08/2016 29/08/2016	LCS-W2	30/08/2016
TRHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	152490-1	<50 <50	LCS-W2	119%
TRHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	152490-1	<100 <100	LCS-W2	121%
TRHC ₂₉ - C ₃₆	µg/L	100	Org-003	<100	152490-1	<100 <100	LCS-W2	133%
TRH>C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	152490-1	<50 <50	LCS-W2	119%
TRH>C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	152490-1	<100 <100	LCS-W2	121%
TRH>C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	152490-1	<100 <100	LCS-W2	133%
Surrogate o-Terphenyl	%		Org-003	104	152490-1	95 104 RPD: 9	LCS-W2	82%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Naphthalene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	78%
Acenaphthylene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Acenaphthene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Fluorene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	77%
Phenanthrene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	101%
Anthracene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Fluoranthene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	77%
Pyrene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	77%
Benzo(a)anthracene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]

Client Reference: 85556.00, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Chrysene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Benzo(b,j+k) fluoranthene	µg/L	2	Org-012	<2	152490-1	<2 <2	[NR]	[NR]
Benzo(a)pyrene	µg/L	1	Org-012	<1	152490-1	<1 <1	LCS-W1	84%
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	1	Org-012	<1	152490-1	<1 <1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	76	152490-1	82 78 RPD: 5	LCS-W1	72%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
HCB	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
alpha-BHC	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	70%
gamma-BHC	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
beta-BHC	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	79%
Heptachlor	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	76%
delta-BHC	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Aldrin	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	75%
Heptachlor Epoxide	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	77%
gamma-Chlordane	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
alpha-Chlordane	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Endosulfan I	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
pp-DDE	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	78%
Dieldrin	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	78%
Endrin	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	76%
pp-DDD	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	75%
Endosulfan II	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
pp-DDT	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Endrin Aldehyde	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Endosulfan Sulphate	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	LCS-W1	79%
Methoxychlor	µg/L	0.2	Org-005	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Surrogate TCMX	%		Org-005	119	152490-1	132 120 RPD: 10	LCS-W1	112%

Client Reference: 85556.00, Parramatta

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP Pesticides in water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Azinphos-methyl (Guthion)	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Bromophos ethyl	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Chlorpyrifos	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	70%
Chlorpyrifos-methyl	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Diazinon	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Dichlorovos	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	90%
Dimethoate	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	[NR]	[NR]
Ethion	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	79%
Fenitrothion	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	86%
Malathion	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	92%
Parathion	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	110%
Ronnel	µg/L	0.2	Org-008	<0.2	152490-1	<0.2 <0.2	LCS-W1	71%
Surrogate TCMX	%		Org-008	119	152490-1	132 120 RPD: 10	LCS-W1	126%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	152490-1	29/08/2016 29/08/2016	LCS-W1	29/08/2016
Aroclor 1016	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Aroclor 1221	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Aroclor 1232	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Aroclor 1242	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Aroclor 1248	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Aroclor 1254	µg/L	2	Org-006	<2	152490-1	<2 <2	LCS-W1	74%
Aroclor 1260	µg/L	2	Org-006	<2	152490-1	<2 <2	[NR]	[NR]
Surrogate TCLMX	%		Org-006	119	152490-1	132 120 RPD: 10	LCS-W1	126%

Client Reference: 85556.00, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Total Phenolics in Water						Base II Duplicate II %RPD		
Date extracted	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	[NT]	[NT]	LCS-W1	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	98%
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	[NT]	[NT]	LCS-W1	101%
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	93%
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	96%
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	102%
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	LCS-W1	99%
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	98%
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	99%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in Waters - Acid extractable						Base II Duplicate II %RPD		
Date prepared	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Date analysed	-			30/08/2016	[NT]	[NT]	LCS-W1	30/08/2016
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	LCS-W1	99%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
Date analysed	-			29/08/2016	[NT]	[NT]	LCS-W1	29/08/2016
Total Nitrogen in water	mg/L	0.1	Inorg-055/062	<0.1	[NT]	[NT]	LCS-W1	105%
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	LCS-W1	90%
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	LCS-W1	89%
Phosphate as P in water	mg/L	0.005	Inorg-060	<0.005	[NT]	[NT]	LCS-W1	105%

Client Reference: 85556.00, Parramatta

QUALITY CONTROL svTRH (C10-C40) in Water	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	152490-2	29/08/2016
Date analysed	-	[NT]	[NT]	152490-2	29/08/2016
TRHC ₁₀ - C ₁₄	µg/L	[NT]	[NT]	152490-2	122%
TRHC ₁₅ - C ₂₈	µg/L	[NT]	[NT]	152490-2	127%
TRHC ₂₉ - C ₃₆	µg/L	[NT]	[NT]	152490-2	102%
TRH>C ₁₀ - C ₁₆	µg/L	[NT]	[NT]	152490-2	122%
TRH>C ₁₆ - C ₃₄	µg/L	[NT]	[NT]	152490-2	127%
TRH>C ₃₄ - C ₄₀	µg/L	[NT]	[NT]	152490-2	102%
Surrogate o-Terphenyl	%	[NT]	[NT]	152490-2	96%
QUALITY CONTROL PAHs in Water	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	152490-2	29/08/2016
Date analysed	-	[NT]	[NT]	152490-2	29/08/2016
Naphthalene	µg/L	[NT]	[NT]	152490-2	75%
Acenaphthylene	µg/L	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	[NT]	[NT]	152490-2	71%
Phenanthrene	µg/L	[NT]	[NT]	152490-2	86%
Anthracene	µg/L	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	[NT]	[NT]	152490-2	76%
Pyrene	µg/L	[NT]	[NT]	152490-2	70%
Benzo(a)anthracene	µg/L	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	[NT]	[NT]	[NR]	[NR]
Benzo(b,j+k)fluoranthene	µg/L	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	[NT]	[NT]	152490-2	78%
Indeno(1,2,3-c,d)pyrene	µg/L	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	152490-2	78%

Client Reference: 85556.00, Parramatta

QUALITY CONTROL OCP in water	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	152490-2	29/08/2016
Date analysed	-	[NT]	[NT]	152490-2	29/08/2016
HCB	µg/L	[NT]	[NT]	[NR]	[NR]
alpha-BHC	µg/L	[NT]	[NT]	152490-2	101%
gamma-BHC	µg/L	[NT]	[NT]	[NR]	[NR]
beta-BHC	µg/L	[NT]	[NT]	152490-2	111%
Heptachlor	µg/L	[NT]	[NT]	152490-2	110%
delta-BHC	µg/L	[NT]	[NT]	[NR]	[NR]
Aldrin	µg/L	[NT]	[NT]	152490-2	109%
Heptachlor Epoxide	µg/L	[NT]	[NT]	152490-2	112%
gamma-Chlordane	µg/L	[NT]	[NT]	[NR]	[NR]
alpha-Chlordane	µg/L	[NT]	[NT]	[NR]	[NR]
Endosulfan I	µg/L	[NT]	[NT]	[NR]	[NR]
pp-DDE	µg/L	[NT]	[NT]	152490-2	115%
Dieldrin	µg/L	[NT]	[NT]	152490-2	113%
Endrin	µg/L	[NT]	[NT]	152490-2	110%
pp-DDD	µg/L	[NT]	[NT]	152490-2	112%
Endosulfan II	µg/L	[NT]	[NT]	[NR]	[NR]
pp-DDT	µg/L	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	µg/L	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	µg/L	[NT]	[NT]	152490-2	113%
Methoxychlor	µg/L	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	152490-2	126%

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test
NR: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Sophie Keritz

From: John Russell <John.Russell@douglaspartners.com.au>
Sent: Thursday, 1 September 2016 6:31 PM
To: Ken Nguyen; Samplereceipt
Subject: RE: Results for Registration 152490 85556.00, Parramatta

Ken,

Can you please test hardness on sample BH14.

Thanks,

152490-A
std TAT
Due 08/09

John Russell | Associate
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
96 Hermitage Road West Ryde NSW 2114 | PO Box 472 West Ryde NSW 1685
P: 02 9809 0666 | F: 02 9809 4095 | M: 0422 000 434 | E: John.Russell@douglaspartners.com.au

FINANCIAL REVIEW
CLIENT CHO
FINALIST

This email is confidential. If you are not the intended recipient, please notify us immediately and be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. Please note that the company does not make any commitment through emails not confirmed by fax or letter.

From: Ken Nguyen [<mailto:KNguyen@envirolab.com.au>]
Sent: Thursday, 1 September 2016 5:46 PM
To: Christopher Bagia; John Russell
Subject: Results for Registration 152490 85556.00, Parramatta

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC
an excel file containing the results

Please note that a hard copy will not be posted.

Enquiries should be made directly to:
sydney@envirolab.com.au

Regards

Envirolab Services
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
www.envirolabservices.com.au

Regards

Ken Nguyen | Chemist | Envirolab Services Pty Ltd

Great Chemistry, Great Service.



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

152490-A

Client:

Douglas Partners Pty Ltd
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Chris Bagia

Sample log in details:

Your Reference:	85556.00, Parramatta
No. of samples:	1 water for additional testing
Date samples received / completed instructions received	26/08/2016 / 01/09/2016

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 8/09/16 / 6/09/16
Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
General Manager

Envirolab Reference: 152490-A
Revision No: R 00



Cations in water Dissolved		
Our Reference:	UNITS	152490-A-1
Your Reference	-----	BH14
	-	
Date Sampled	-----	26/08/2016
Type of sample		Water
Date digested	-	02/09/2016
Date analysed	-	02/09/2016
Calcium - Dissolved	mg/L	8.2
Magnesium - Dissolved	mg/L	51
Hardness	mgCaCO ₃ /L	230

Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.

Client Reference: 85556.00, Parramatta

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Cations in water Dissolved						Base II Duplicate II %RPD		
Date digested	-			02/09/2016	[NT]	[NT]	LCS-W1	02/09/2016
Date analysed	-			02/09/2016	[NT]	[NT]	LCS-W1	02/09/2016
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	LCS-W1	110%
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	LCS-W1	107%
Hardness	mgCaCO ₃ /L	3		[NT]	[NT]	[NT]	[NR]	[NR]

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test

NR: Test not required

<: Less than

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

>: Greater than

NT: Not tested

NA: Test not required

LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

SAMPLE RECEIPT ADVICE

Client Details	
Client	Douglas Partners Pty Ltd
Attention	Chris Bagia

Sample Login Details	
Your Reference	85556.00, Parramatta
Envirolab Reference	152490
Date Sample Received	26/08/2016
Date Instructions Received	26/08/2016
Date Results Expected to be Reported	02/09/2016

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	2 waters
Turnaround Time Requested	Standard
Temperature on receipt (°C)	14.9
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolabservices.com.au	Email: jhurst@envirolabservices.com.au

Sample and Testing Details on following page

		<i>Sample Id</i>
BH14	✓	<i>vTRH(C6-C10)/BTEXN in Water</i>
BD1/260816	✓	<i>svTRH (C10-C40) in Water</i>
	✓	<i>PAHs in Water</i>
	✓	<i>OCP in water</i>
	✓	<i>OP Pesticides in water</i>
	✓	<i>PCBs in Water</i>
	✓	<i>Total Phenolics in Water</i>
	✓	<i>HM in water - dissolved</i>
	✓	<i>Metals in Waters - Acid extractable</i>
	✓	<i>Ammonia as N in water</i>
	✓	<i>NOx as N in water</i>
	✓	<i>Phosphate as P in water</i>
	✓	<i>Total Nitrogen in water</i>

Appendix G

Data Quality Assurance and Quality Control Procedures

Data Quality Assurance and Quality Control Procedures and Results

Q1. Data Quality Indicators

Field and laboratory procedures were assessed against the following data quality indicators (DQIs):

- Precision – a measure of variability or reproducibility of data;
- Accuracy – a measure of closeness of the data to the ‘true’ value;
- Representativeness – the confidence (qualitative) of data representativeness of media present on-site;
- Completeness – a measure of the amount of usable data from a data collection activity; and
- Comparability – the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event.

The DQIs were assessed as outlined in the following table.

Table Q1: Data Quality Indicators

DQI	Performance Indicator	Acceptable Range	Compliance
Precision			
Field considerations	SOPs appropriate and complied with	Field staff follow SOPs in the DP <i>Field Procedures Manual</i>	C
	field replicates	Precision average relative percent difference (RPD) result <5 times PQL, no limit; results >5 times PQL, 0% - 30%	PC
Laboratory considerations	laboratory duplicates	Precision average RPD result <5 times PQL, no limit; results >5 times PQL, 0% - 50%	PC
	laboratory-prepared volatile trip spikes	Recovery of 60-140%	C
Accuracy (bias)			
Field considerations	SOPs appropriate and complied with	Field staff to follow SOPs in the DP <i>Field Procedures Manual</i>	C
Laboratory considerations	Analysis of:		
	laboratory-prepared volatile trip spikes	Recovery of 60-140%	C
	Laboratory-prepared trip blanks (field blanks)	<PQL	C
	method blanks (laboratory blanks)	Recovery of 60-140%	C
	matrix spikes	Recovery of 70-130% (inorganics); 60-140% (organics)	C
	matrix spike duplicates	Recovery of 70-130% (inorganics); 60-140% (organics); Recovery 70 “low” to 130% “high” indicates interference	C
	surrogate spikes	Recovery of 70-130% (inorganics); 60-140% (organics)	C

DQI	Performance Indicator	Acceptable Range	Compliance	
	laboratory control samples	Recovery of 70-130% (inorganics); 60-140% (organics)	PC	
Completeness				
Field considerations	All critical locations sampled	All critical locations sampled in accordance with the SAQP where accessible. Some limitations due to lack of accessibility	PC	
	SOPs appropriate and complied with	Field staff to follow SOPs in the DP <i>Field Procedures Manual</i>	C	
	Experienced sampler	Experienced DP Environmental Scientist/Engineer to conduct field work and sampling	C	
	Documentation correct	Maintain COC documentation at all times	C	
	Sample holding times complied with	Sample holding times complied with	C	
	Laboratory considerations	All critical samples analysed according to SAQP	All critical locations analysed in accordance with the SAQP	C
		Appropriate methods and PQLs	Appropriate methods and PQLs have been used by the contract laboratory	C
		Sample documentation complete	Maintain COC documentation at all times	C
Comparability				
Field considerations	Same SOPs used on each occasion	Field staff to follow SOPs in the DP <i>Field Procedures Manual</i>	C	
	Experienced sampler	Experienced DP Environmental Scientist/Engineer to conduct field work and sampling	C	
	Same types of samples collected	Use of consistent sampling method and collection of comparable samples	C	
	Laboratory considerations	Sample analytical methods used	Methods to be NATA accredited	C
		Sample PQLs (justify/quantify if different)	Consistent PQLs to be used	C
		Same laboratories (justify/quantify if different)	Same analytical laboratory used for primary samples	C
Representativeness				
Field considerations	Appropriate media sampled according to SAQP	Appropriate media sampled according to SAQP	C	
	All media identified in SAQP sampled	All media identified in SAQP sampled	C	
	Laboratory considerations	All samples analysed according to SAQP	C	

Notes to Table Q1:

SOP – Standard Operating Procedure

SAQP – Sampling and Analysis Quality Plan (i.e. as per the proposed scope of work in DP proposal)

C – Compliance

PC – Partial Compliance

SOP – Standard Operating Procedure

SAQP – Sampling and Analysis Quality Plan (i.e. as per the proposed scope of work in DP proposal)

Q2. Field Quality Assurance and Quality Control

The field QC procedures for sampling as prescribed in standard operating procedures (SOPs) in the Douglas Partners *Field Procedures Manual* were followed at all times during the assessment. All sample locations and media were with reference to the proposed scope in DP's fee proposal.

Q2.1 Sampling Team

Sampling was by an experienced DP Environmental Scientist/Engineers, Chris Bagia and Matthew Hyde. Sampling was conducted in accordance with DP standard operating procedures and field staff were briefed by the project manager to provide consistency in techniques between the samplers.

Q2.2 Sample Collection and Weather Conditions

Sample collection procedures and dispatch are reported in body of the report. Sampling was undertaken during mainly sunny and warm conditions.

Q2.3 Logs

Logs for each soil sampling location were recorded in the field. The individual samples were recorded on the field logs along with the sample identity, location, depth, initials of sampler, duplicate locations, duplicate type and site observations. Logs are included in Appendix D.

Q2.4 Chain of Custody

Chain of custody information was recorded on the Chain of Custody (COC) sheets and accompanied samples to the analytical laboratory. Signed copies of COCs are presented in Appendix F, following the laboratory reports.

Q2.5 Sample Splitting Techniques

Replicate samples were collected in the field as a measure of precision of the results. Field replicates samples for soil were collected from the same location and an identical depth to the primary sample. Equal portions of the primary sample were placed into the sampling jars and sealed. The sample was not homogenised in a bowl to prevent the loss of volatiles from the soil. Replicate samples were labelled with a DP identification number, recorded on DP bore logs, so as to conceal their relationship to their primary sample from the analysing laboratory.

The groundwater duplicate was taken by filling sample bottles whilst pumping from the one well.

Q2.6 Replicate and Duplicate Frequency

Field sampling comprised intra-laboratory duplicate sampling, with analysis at a rate of approximately one duplicate sample for every thirty primary samples.

Q2.7 Trip Spikes

A laboratory prepared soil trip spike was taken into the field, subjected to the same preservation methods as the field samples, then analysed for volatile contaminants (BTEX in this case), for the

purposes of assessing data 'precision' and 'accuracy' (i.e. potential losses in volatile organics incurred prior to reaching the laboratory). A trip spike was taken into the field on one soil sampling and dispatched with the batch sampling run. The result of the laboratory analysis for the trip spikes is shown in the table below.

Table Q2: Trip Spike Results (% Recovery)

	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene
Trip Spike 1 (soil)	112%	111%	107%	107%	110%

Results indicate that the percentage loss for BTEX during the trip was within the acceptable range and therefore loss of volatiles during sample handing and transport of samples is unlikely to have occurred.

Q2.8 Trip Blanks

A laboratory prepared soil trip blank was taken out to the field unopened, subjected to the same preservation methods as the field samples, then analysed for the purposes of assessing data 'accuracy' (i.e. the potential transfer of contaminants into the blank sample incurred prior to reaching the laboratory). The result of the laboratory analysis for the trip blanks is shown in the table below.

Table Q3: Trip Blank Results

	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene
Trip Blank 1 (soil – mg/kg)	<1	<1	<1	<2	<1

Levels of analytes were all below detection limits (i.e. within the acceptable range) and indicate transfer of BTEX contaminants into the trip blanks has not occurred. On this basis, the cross-contamination of samples during handing and transport of samples is considered unlikely to have occurred.

Q2.9 Relative Percentage Difference

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for duplicate samples.

Replicates were tested to assess data 'precision' and the reproducibility within the primary laboratory (Envirolab Services Pty Ltd - Envirolab) as a measure of consistency of sampling techniques. Replicate samples were analysed at a rate of approximately 1 sample per 30 primary samples. For soil samples, two intra-laboratory replicates were analysed. For groundwater, one intra-laboratory sample was analysed. The Relative Percent Difference (RPD) between replicate results is used as a measure of laboratory reproducibility and is given by the following:

$$RPD = \frac{ABS(\text{Replicate result 1} - \text{Replicate result 2})}{(\text{Replicate result 1} + \text{Replicate result 2})/2} \times 100$$

The RPD can have a value between 0% and 200%. An RPD data quality objective of up to 30% is considered to be within the acceptable range for inorganic compounds, and a RPD of up to 50% is considered to be acceptable for organic compounds.

The comparative results of analysis between primary and duplicate samples are summarised in the table below. Where one or both results were below the PQL, an RPD was not calculated.

Table Q4: RPD Results for Soil (mg/kg)

	TP22	BD3/110816	RPD (%)	TP01	BD1/110816	RPD (%)
Depth	0.1 – 0.2	-	-	0.4 – 0.5	-	-
Metals						
Arsenic	<4.0	<4.0	0	8.0	7.0	13
Cadmium	<0.4	<0.4	0	<0.4	<0.4	0
Chromium (III+VI)	14.0	12.0	15	14.0	24.0	53
Copper	5.0	6.0	18	9.0	11.0	20
Lead	20.0	19.0	5	16.0	21.0	27
Mercury	<0.1	<0.1	0	<0.1	<0.1	0
Nickel	2.0	3.0	40	3.0	8.0	91
Zinc	22.0	22.0	0	15.0	14.0	7
TRH						
C10-C16	<50.0	<50.0	0	<50.0	<50.0	0
C16-C34	<100.0	<100.0	0	<100.0	<100.0	0
C34-C40	<100.0	<100.0	0	<100.0	<100.0	0
F2-NAPHTHALENE	<50.0	<50.0	0	<50.0	<50.0	0
C6 - C9	<25.0	<25.0	0	<25.0	<25.0	0
C10 - C14	<50.0	<50.0	0	<50.0	<50.0	0
C15 - C28	<100.0	<100.0	0	<100.0	<100.0	0
C29-C36	<100.0	<100.0	0	<100.0	<100.0	0
C6-C10 less BTEX (F1)	<25.0	<25.0	0	<25.0	<25.0	0
C6-C10	<25.0	<25.0	0	<25.0	<25.0	0
BTEX						
Benzene	<0.2	<0.2	0	<0.2	<0.2	0
Ethylbenzene	<1.0	<1.0	0	<1.0	<1.0	0
Toluene	<0.5	<0.5	0	<0.5	<0.5	0
Xylene (m & p)	<2.0	<2.0	0	<2.0	<2.0	0
Xylene (o)	<1.0	<1.0	0	<1.0	<1.0	0
Halogenated Benzenes						
Hexachlorobenzene	<0.1	<0.1	0	<0.1	<0.1	0
PAH/Phenols						
Acenaphthene	<0.1	<0.1	0	<0.1	<0.1	0
Acenaphthylene	<0.1	<0.1	0	<0.1	<0.1	0
Anthracene	<0.1	0.1	0	0.1	0.1	0
Benz(a)anthracene	<0.1	0.1	0	0.2	0.2	0
Benzo(a) pyrene	0.07	0.1	35	0.2	0.2	0
Benzo(g,h,i)perylene	<0.1	<0.1	0	<0.1	<0.1	0
Chrysene	0.1	0.2	67	0.2	0.2	0

	TP22	BD3/110816	RPD (%)	TP01	BD1/110816	RPD (%)
Dibenz(a,h)anthracene	<0.1	<0.1	0	<0.1	<0.1	0
Fluoranthene	0.2	0.3	40	0.6	0.5	18
Fluorene	<0.1	<0.1	0	<0.1	<0.1	0
Indeno(1,2,3-c,d)pyrene	<0.1	<0.1	0	<0.1	<0.1	0
Naphthalene	<1.0	<1.0	0	<1.0	<1.0	0
Naphthalene	<0.1	<0.1	0	<0.1	<0.1	0
Phenanthrene	0.1	0.2	67	0.3	0.2	40
Phenolics Total	<5.0	<5.0	0	<5.0	<5.0	0
Pyrene	0.2	0.3	40	0.6	0.4	40
Polychlorinated Biphenyls						
Arochlor 1016	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1221	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1232	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1242	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1248	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1254	<0.1	<0.1	0	<0.1	<0.1	0
Arochlor 1260	<0.1	<0.1	0	<0.1	<0.1	0
Organochlorine Pesticides						
4,4-DDE	<0.1	<0.1	0	<0.1	<0.1	0
a-BHC	<0.1	<0.1	0	<0.1	<0.1	0
Aldrin	<0.1	<0.1	0	<0.1	<0.1	0
b-BHC	<0.1	<0.1	0	<0.1	<0.1	0
Chlordane (cis)	<0.1	<0.1	0	<0.1	<0.1	0
Chlordane (trans)	<0.1	<0.1	0	<0.1	<0.1	0
d-BHC	<0.1	<0.1	0	<0.1	<0.1	0
DDD	<0.1	<0.1	0	<0.1	<0.1	0
DDT	<0.1	<0.1	0	<0.1	<0.1	0
Dieldrin	<0.1	<0.1	0	<0.1	<0.1	0
Endosulfan I	<0.1	<0.1	0	<0.1	<0.1	0
Endosulfan II	<0.1	<0.1	0	<0.1	<0.1	0
Endosulfan sulphate	<0.1	<0.1	0	<0.1	<0.1	0
Endrin	<0.1	<0.1	0	<0.1	<0.1	0
Endrin aldehyde	<0.1	<0.1	0	<0.1	<0.1	0
g-BHC (Lindane)	<0.1	<0.1	0	<0.1	<0.1	0
Heptachlor	<0.1	<0.1	0	<0.1	<0.1	0
Heptachlor epoxide	<0.1	<0.1	0	<0.1	<0.1	0
Methoxychlor	<0.1	<0.1	0	<0.1	<0.1	0
Organophosphorous Pesticides						
Azinophos methyl	<0.1	<0.1	0	<0.1	<0.1	0
Bromophos-ethyl	<0.1	<0.1	0	<0.1	<0.1	0
Chlorpyrifos	<0.1	<0.1	0	<0.1	<0.1	0
Chlorpyrifos-methyl	<0.1	<0.1	0	<0.1	<0.1	0
Diazinon	<0.1	<0.1	0	<0.1	<0.1	0
Dichlorvos	<0.1	<0.1	0	<0.1	<0.1	0
Dimethoate	<0.1	<0.1	0	<0.1	<0.1	0

	TP22	BD3/110816	RPD (%)	TP01	BD1/110816	RPD (%)
Ethion	<0.1	<0.1	0	<0.1	<0.1	0
Fenitrothion	<0.1	<0.1	0	<0.1	<0.1	0
Malathion	<0.1	<0.1	0	<0.1	<0.1	0
Ronnel	<0.1	<0.1	0	<0.1	<0.1	0
Pesticides						
Parathion	<0.1	<0.1	0	<0.1	<0.1	0

Notes to Table Q4:

Results expressed in mg/kg on dry weight basis

N/A - Not Applicable

The calculated RPD values for soil were within the acceptable range with the exception of those shaded cells. However, this is not considered to be significant because:

- The results were all close to the laboratory practical quantitation limit;
- The typically low actual differences in the concentrations of the replicate pairs where some RPD exceedances occurred;
- Replicate pairs being generally collected from fill soils which by its nature is heterogeneous;
- Replicates, rather than homogenised replicates were used to avoid volatile loss, hence greater variability can be expected; and
- The majority of RPDs within a replicate pair being within the acceptable limits.

Table Q5: RPD Results for Groundwater (µg/L)

	BH14	BD1/260816	RPD (%)
Metals			
Arsenic	<1	<1	0
Cadmium	<0.1	<0.1	0
Chromium (III+VI)	<1	<1	0
Copper	4	5	22
Lead	<1	<1	0
Mercury	<0.05	<0.05	0
Nickel	42	43	2
Zinc	120	120	0
Phosphorus	<0.05	<0.05	0
TRH			
C16-C34	<100.0	<100.0	0
C34-C40	<100.0	<100.0	0
F2-NAPHTHALENE	<50.0	<50.0	0
C10 - C14	<50.0	<50.0	0
C15 - C28	<100.0	<100.0	0
C29-C36	<100.0	<100.0	0
C6-C10 less BTEX (F1)	<25.0	<25.0	0
C10 - C16	<100.0	<100.0	0

	BH14	BD1/260816	RPD (%)
BTEX			
Benzene	<1	<1	0
Ethylbenzene	<1	<1	0
Toluene	<1	<1	0
Xylene (m & p)	<2	<2	0
Xylene (o)	<1	<1	0
Halogenated Benzenes			
Hexachlorobenzene	<0.1	<0.1	0
PAH/Phenols			
Acenaphthene	<1	<1	0
Acenaphthylene	<1	<1	0
Anthracene	<1	<1	0
Benz(a)anthracene	<1	<1	0
Benzo(a) pyrene	<1	<1	0
Benzo(g,h,i)perylene	<1	<1	0
Chrysene	<1	<1	0
Dibenz(a,h)anthracene	<1	<1	0
Fluoranthene	<1	<1	0
Fluorene	<1	<1	0
Indeno(1,2,3-c,d)pyrene	<1	<1	0
Naphthalene	<1	<1	0
Naphthalene	<1	<1	0
Phenanthrene	<1	<1	0
Phenolics Total	<0.05	<0.05	0
Pyrene	<1	<1	0
Polychlorinated Biphenyls			
Arochlor 1016	<2	<2	0
Arochlor 1221	<2	<2	0
Arochlor 1232	<2	<2	0
Arochlor 1242	<2	<2	0
Arochlor 1248	<2	<2	0
Arochlor 1254	<2	<2	0
Arochlor 1260	<2	<2	0
Organochlorine Pesticides			
4,4-DDE	<0.2	<0.2	0
a-BHC	<0.2	<0.2	0
Aldrin	<0.2	<0.2	0
b-BHC	<0.2	<0.2	0
Chlordane (cis)	<0.2	<0.2	0
Chlordane (trans)	<0.2	<0.2	0
d-BHC	<0.2	<0.2	0
DDD	<0.2	<0.2	0
DDT	<0.2	<0.2	0
Dieldrin	<0.2	<0.2	0
Endosulfan I	<0.2	<0.2	0

	BH14	BD1/260816	RPD (%)
Endosulfan II	<0.2	<0.2	0
Endosulfan sulphate	<0.2	<0.2	0
Endrin	<0.2	<0.2	0
Endrin aldehyde	<0.2	<0.2	0
g-BHC (Lindane)	<0.2	<0.2	0
Heptachlor	<0.2	<0.2	0
Heptachlor epoxide	<0.2	<0.2	0
Methoxychlor	<0.2	<0.2	0
Organophosphorous Pesticides			
Azinophos methyl	<0.2	<0.2	0
Bromophos-ethyl	<0.2	<0.2	0
Chlorpyrifos	<0.2	<0.2	0
Chlorpyrifos-methyl	<0.2	<0.2	0
Diazinon	<0.2	<0.2	0
Dichlorvos	<0.2	<0.2	0
Dimethoate	<0.2	<0.2	0
Ethion	<0.2	<0.2	0
Fenitrothion	<0.2	<0.2	0
Malathion	<0.2	<0.2	0
Ronnel	<0.2	<0.2	0
Parathion	<0.2	<0.2	0
Miscellaneous Inorganics			
Total Nitrogen	0.4	0.3	29
NOx as N	0.01	0.008	22
Ammonia as N	0.029	0.033	13
Phosphate as P	0.2	0.21	5

The calculated RPD values for groundwater were within the acceptable range of 30%. Therefore the overall intra-laboratory comparisons indicate that the sampling technique was consistent and repeatable and therefore the results are considered useable and representative of the conditions encountered and acceptable 'precision' was achieved.

Q3. Laboratory Quality Assurance and Quality Control

EnviroLab Services Pty Ltd (ELS) were used as the primary laboratory. Appropriate methods and PQLs were used by the laboratory. Sample methods were NATA accredited.

Q3.1 Surrogate Spike

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis to each sample. The recovery result indicates the proportion of the known concentration of the surrogate that is detected during analysis and is used to assess data 'accuracy'. Results within acceptance limits indicate that the extraction technique was effective.

Q3.2 Reference and Daily Check Sample Results – Laboratory Control Sample (LCS)

This sample comprises spiking either a standard reference material or a control matrix (such as a blank of sand or water) with a known concentration of specific analytes. The LCS is then analysed and results compared against each other to determine how the laboratory has performed with regard to sample preparation and analytical procedure and is used to assess data 'accuracy'. LCSs are analysed at a frequency of 1 in 20, with a minimum of one analysed per batch.

Q3.3 Laboratory Duplicate Results

These are additional portions of a sample which are analysed in exactly the same manner as all other samples and is used to assess data 'precision'. The laboratory acceptance criteria for duplicate samples is: in cases where the level is $<5xPQL$ – any RPD is acceptable; and in cases where the level is $>5xPQL$ – 0-50% RPD is acceptable.

Q3.4 Laboratory Blank Results

The laboratory blank, sometimes referred to as the method blank or reagent blank is the sample prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus and is used to assess data 'accuracy'. This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, it can be determined by processing solvents and reagents in exactly the same manner as for samples. Laboratory blanks are analysed at a frequency of 1 in 20, with a minimum of one per batch.

Q3.5 Matrix Spike

This is a sample duplicate prepared by adding a known amount of analyte prior to analysis, and then treated exactly the same as all other samples. The recovery result indicates the proportion of the known concentration of the analyte that is detected during analysis and is used to assess data 'accuracy'. The laboratory acceptance criteria for matrix spike samples is generally 70-130% for inorganic/metals; and 60-140% for organics; and 10-140% for SVOC and speciated phenols.

Q3.6 Results of Laboratory QC

The laboratory QC for surrogate spikes, LCS, laboratory duplicate results, method blanks and matrix spikes were generally within the acceptance standards. There were, however a few comments made in some of the laboratory reports which are summarised in Table 6 below.

Table Q6: Laboratory QA Comments for Results Above QA/QC Criteria

Report No.	Laboratory Comment
151848	<p>Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for Zn. Therefore a triplicate result has been issued.</p> <p>ASBESTOS: ELS note that they sub-sampled for the purpose of asbestos analysis, and that the results may not be representative of the entire sample provided. DP notes that any materials with signs of asbestos contamination were sampled separately, and that there is therefore no practical difference between sub-sampling in the field and the laboratory.</p> <p>PAH: The elevated RPD for the duplicate results is accepted due to the non-homogenous nature of the sample/s. Review of the results indicate that the RPD had been done on sample BH12/0.1-0.2, comprising heterogeneous filling, and that the results were all low and close to the PQL.</p>

The majority of the laboratory quality control samples were within the laboratory acceptance criteria, with the exception of those identified in the above table. The QC non-conformances, where they occurred, are not considered to have significantly impacted the quality of the results overall as the number of non-conformances were minor compared to the overall QC data. It is considered that an acceptable level of laboratory precision and accuracy was achieved and that surrogate spikes, LCS, laboratory duplicate results, method blanks and matrix spike results were of an acceptable level overall. On the basis of this assessment, the laboratory data set is considered to have complied with the DQIs.

Q3.7 Overall Assessment of QA/QC

A review of the adopted QA/QC procedures and DQI results indicates that the DQI have generally been met with only minor non-conformances / partial compliance. On this basis, the sampling and laboratory methods used during the investigation were found to meet DQOs for this project, and are suitable for use in this assessment.